

# OPEN MATERIALS SITES ; SAMPLED

## LEGEND

===== Trail or lane

———— Road

-+-----+ Railroad

~~~~~ Hedge or trees

~~~~~  
Name Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake

■ Open materials sites; sampled

● Open materials sites; not sampled

▼ Prospective materials sites; sampled

◆ Prospective materials sites; not sampled

⑤ Center of section

□ Dwelling

⊕ Cemetery

▣ School

✠ Church

■■■■ Town or city

# MATERIAL SITE DATA FORM

Site No. SG+1 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location SE 1/4 Sec. 10 Twp. 5S Range 4W  
 Owner Roslyn Hatfield 924 Mathew Concordia, KS  
 name address  
 Nature of Deposit Wet Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Sampled

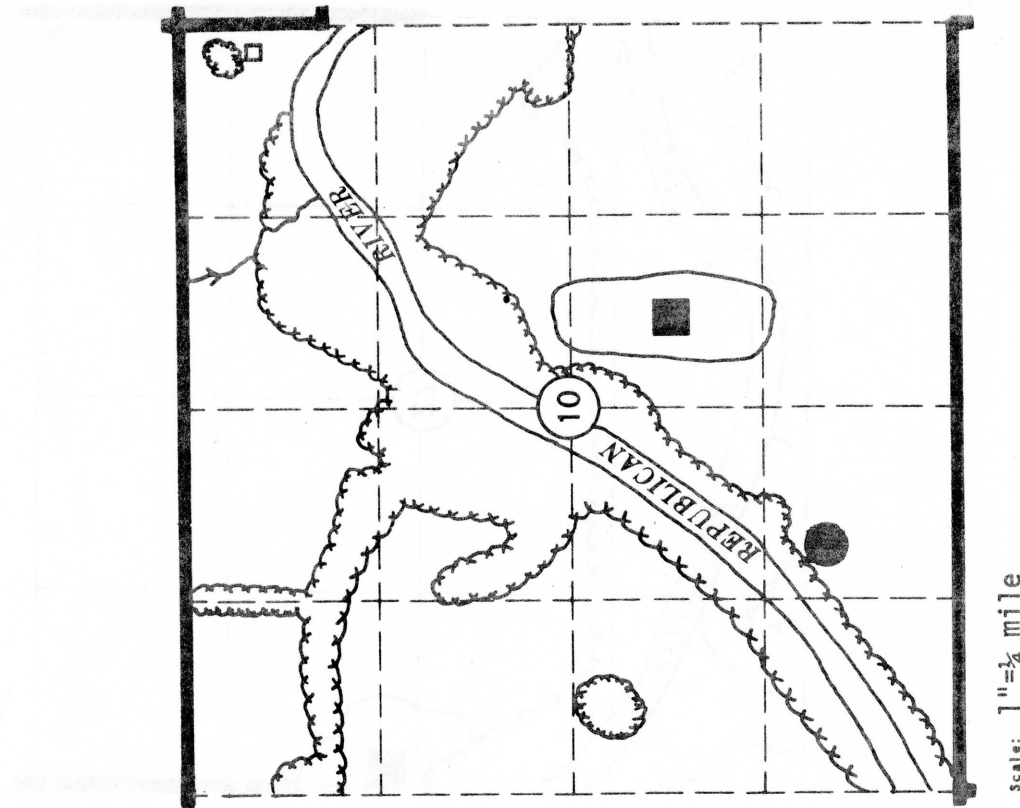
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | Percent Retained |     |     |     |     |    |    |    | Wash 200 | G.F.  | I.L. | P.L. |
|-----------|----------------------------|---------------------|-------------------|------------------|-----|-----|-----|-----|----|----|----|----------|-------|------|------|
|           |                            |                     |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 1/8 | 16 | 30 | 50 | 100      |       |      |      |
|           |                            |                     |                   | 0                | 1   | 4   | 16  | 45  | 77 | 81 | 97 | 98       | 650   | 4.29 |      |
|           |                            |                     |                   | 0                | 0   | 5   | 25  | 53  | 79 | 93 | 97 | 99       | 11.15 | 4.51 |      |
|           |                            |                     |                   |                  |     |     |     |     |    |    |    |          |       |      |      |
|           |                            |                     |                   |                  |     |     |     |     |    |    |    |          |       |      |      |
|           |                            |                     |                   |                  |     |     |     |     |    |    |    |          |       |      |      |
|           |                            |                     |                   |                  |     |     |     |     |    |    |    |          |       |      |      |
|           |                            |                     |                   |                  |     |     |     |     |    |    |    |          |       |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab No. 86180/68-824

Specific Gravity (Sat.) 2.58/2.58 (Dry)  
 Los Angeles Wear 35.2/35.6 (D)  
 Absorption 0.50/0.60 Soundness 0.99/0.98  
 Wt. Cu.Ft. 110.7 Str. Ratio 1da 1.82/1.49 3da 1.72/1.44  
 Location 15-9 Materials Department  
 Remarks \_\_\_\_\_





# MATERIAL SITE DATA FORM

Site No. SG+2 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location SW 1/4 Sec. 27 Twp. 5S Range 3W  
 Owner H. Vanek Route 2 Concordia, Kansas  
 name address  
 Nature of Deposit Wet Accessibility Good Site Located on Plate II  
 Status of Site Open Materials Site; Sampled

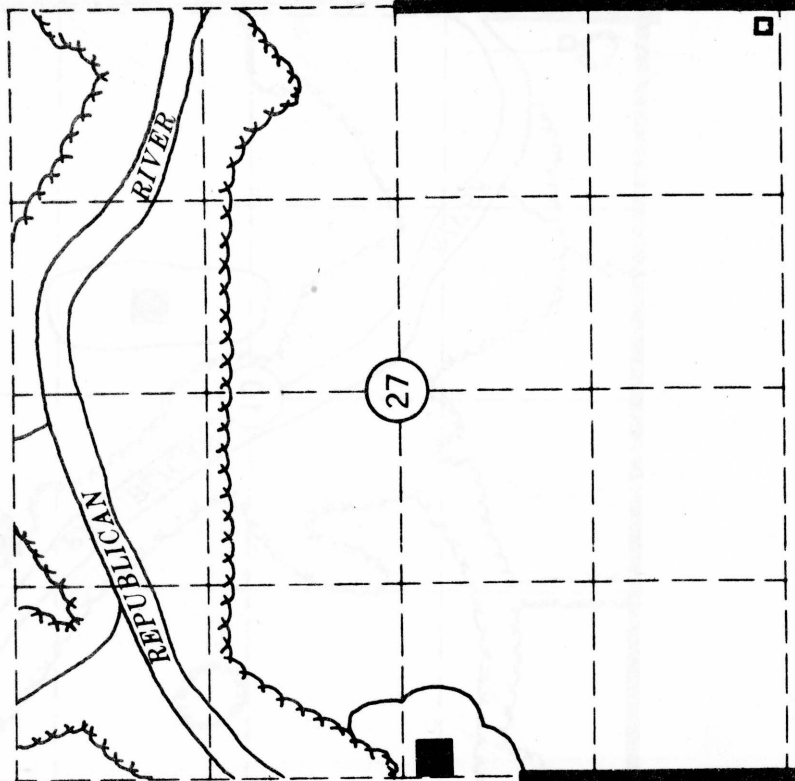
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |    |    |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|----|----|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4  | 8  | 16 | 30 | 50 | 100      |      |      |      |
|           |                            |                      |                   | 0                | 2   | 8   | 26 | 59 | 85 | 95 | 97 | 2.37     | 3.72 |      |      |
|           |                            |                      |                   | 0                | 1   | 3   | 39 | 61 | 87 | 97 | 99 | 1.3      | 3.87 |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab No. 87987/10684

Specific Gravity (Sat.) 2.61/2.60 (Dry) \_\_\_\_\_  
 Los Angeles Wear 37.7/39.2 (D)  
 Absorption 0.60/0.50 Soundness 0.99/0.98  
 Wt. Cu.Ft. 110.2/109.55 Str. Ratio 1da 1.29/1.40 3da 1.33/1.33  
 Remarks Location 15-15 Materials Department



# MATERIAL SITE DATA FORM

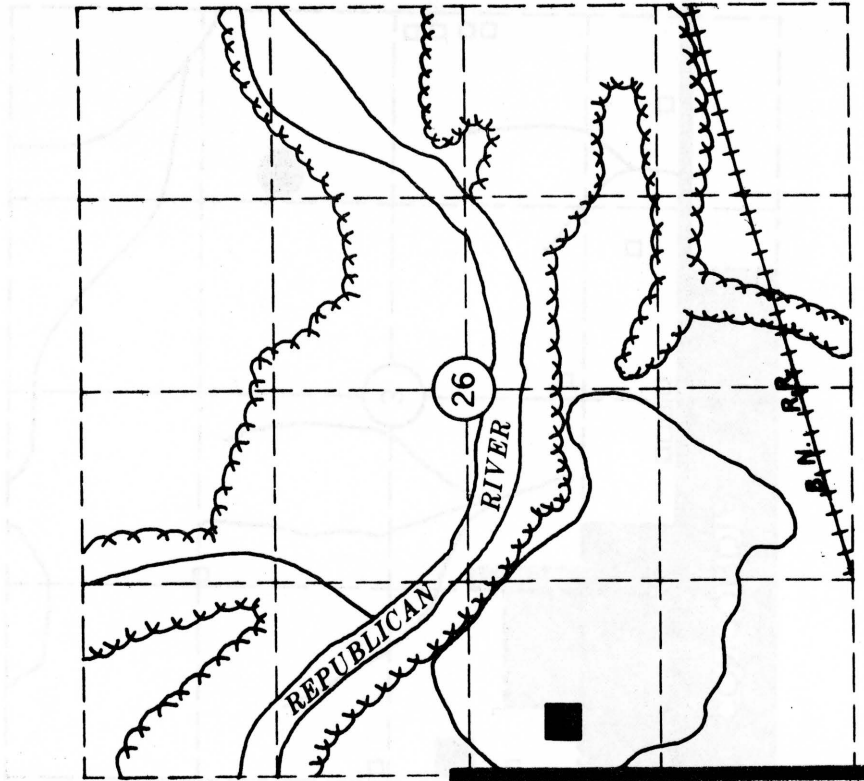
Site No. SG+3 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location SW $\frac{1}{4}$  Sec. 26 Twp. 5S Range 3W  
 Owner Ellis Ross 2720 Burlingame Topeka, Kansas  
 Nature of Deposit Wet Accessibility Good Site Located on Plate II  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |    |    |    |    |    | Wash 200 | G.F. | L.L. | P.I. |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|----|----|----|----|----|----------|------|------|------|-----|
|           |                            |                      |                   | Percent Retained |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4  | 8  | 16 | 30 | 50 |          |      |      |      | 100 |
|           |                            |                      |                   |                  |     |     |    | 0  | 4  | 33 | 77 | 94       | 3    |      |      |     |
|           |                            |                      |                   |                  | 0   | 3   | 19 | 54 | 88 | 96 | 99 | 99       | 1    |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
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|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  | </  |     |    |    |    |    |    |          |      |      |      |     |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab. No. 68-229  
 Specific Gravity (Sat.) 2.58 (dry)  
 Los Angeles Near 35.1 (D)  
 Absorption 0.6 Soundness 0.97  
 Wt. Cu.ft. 1da 1.19 Str. Ratio 3da 1.30  
 Remarks Location 15-1 Materials Department



Scale: 1" = 1/4 mile

# MATERIAL SITE DATA FORM

Si+4  
Q1

Site No. \_\_\_\_\_ Date June, 1977

Material Silt County Cloud

Location NW $\frac{1}{4}$  Sec. 3 Twp. 6S Range 3W

Owner Hugh T. Craig Box 472 Concordia, Kansas  
name address

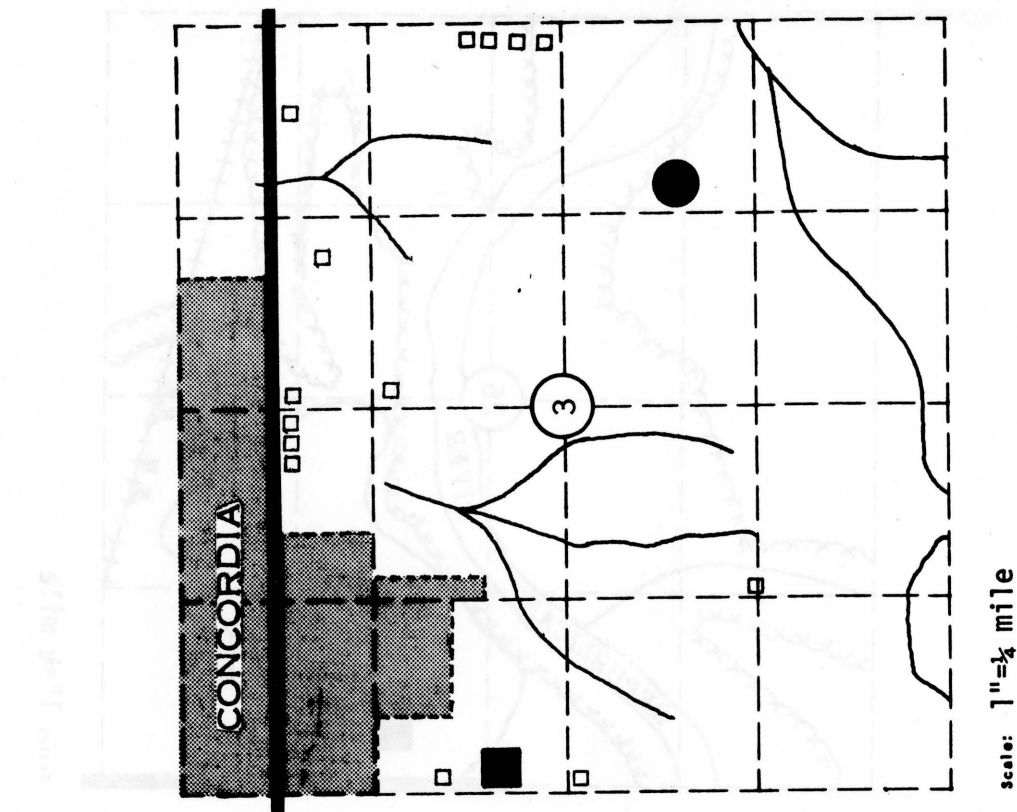
Nature of Deposit Dry Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Sampled

[illegible]

## CORRELATION DATA

Geological Age \_\_\_\_\_ Quaternary \_\_\_\_\_  
 Geological Source \_\_\_\_\_ Loess \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Location 15-10 Materials Department  
 Remarks \_\_\_\_\_



# MATERIAL SITE DATA FORM

Site No. FS+5 Date June, 1977  
Qds  
 Material Fine Sand County Cloud  
 Location NE 1/4, SW 1/4 Sec. 21 Twp. 5S Range 2W  
 Owner Helen W. Carlgran 532 W. 5th Concordia, Kansas  
name address  
 Nature of Deposit Wet Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site; Sampled

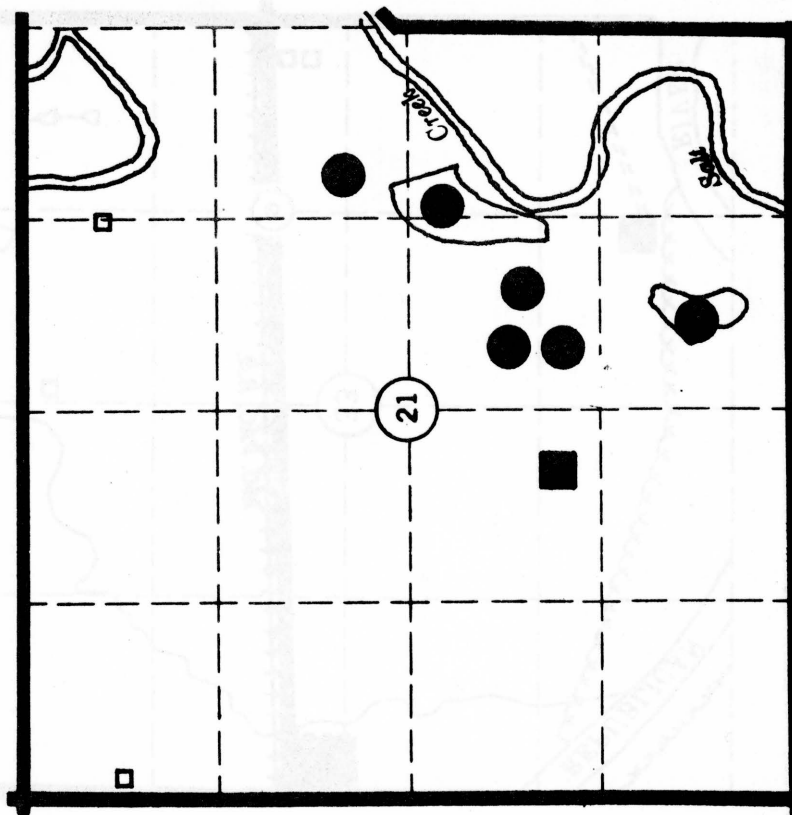
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |    |    |    |    | Wash 200 | L.L. | P.L. |      |      |   |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|----|----|----|----|----------|------|------|------|------|---|
|           |                            |                      |                   | 1/2              | 3/4 | 3/8 | 1/4 | 8  | 16 | 30 | 50 |          |      |      | 100  |      |   |
|           | Ave.                       |                      |                   |                  |     | 0   | 3   | 14 | 32 | 53 | 74 | 84       | 90   | 9.4  | 16   | 1    |   |
|           |                            |                      |                   |                  |     |     |     |    |    |    |    |          |      |      |      |      |   |
|           |                            |                      |                   |                  | 0   | 1   | 6   | 18 | 44 | 73 | 90 | 94       | 96   | 3.8  | 15   | 3    |   |
|           |                            |                      |                   |                  |     |     |     |    | 0  | 1  | 2  | 11       | 37   | 67   | 32.5 | 19   | 2 |
|           |                            |                      |                   |                  |     | 1   | 6   | 20 | 44 | 74 | 88 | 93       | 96   | 4.4  | 16   | N.P. |   |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Dune Sand  
 Material Similar To SHC Lab. No. 72-719  
 Specific Gravity (det.) 2.58 I/2.60 II (drv)  
 Los Angeles Wear 0.80 I/ 0.30 II  
 Absorption 36.0 (D) Soundness  
 Wt. Co. Ft. Location 15-21 Materials Department  
 Remarks

Scale: 1" = 1/4 mile



# MATERIAL SITE DATA FORM

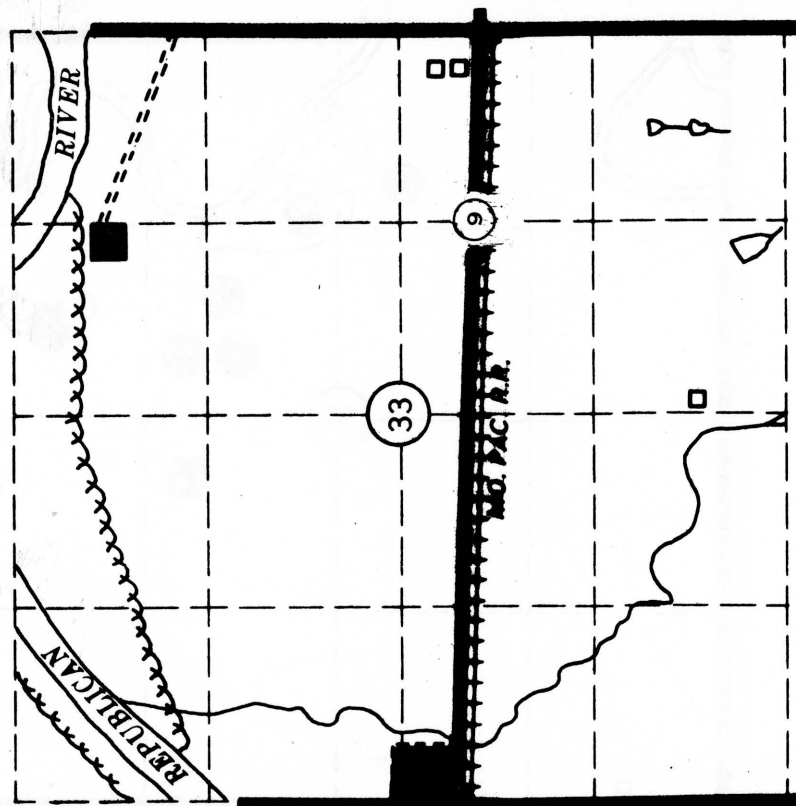
Site No. SG+6 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location NE 1/4 Sec. 33 Twp. 5S Range 2W  
 Owner Ferril Laman 631 W. 5th Concordia, Kansas  
 Name address  
 Nature of Deposit Wet Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |    |    |    | Moisture 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|----|----|----|--------------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 16 | 30 | 50 | 100          |      |      |      |
|           |                            |                      |                   |                  |     |     |     | .1 | .3 | 3  | 11           | 73.0 | 1.4  | 22   |
|           |                            |                      |                   |                  |     |     | 4   | 16 | 33 | 53 | 79           | 6.7  | 27.5 | 15   |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |              |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab. No. 67-1380  
 Specific Gravity (Sat.) 2.59 (Dry)  
 Los Angeles Wear 35.9 (D)  
 Absorption 0.50 Soundness 0.98  
 Wt. Cu.Ft. 1da 1.22 Str. Ratio 3da 1.37  
 Remarks Location 15-10 Materials Department



# MATERIAL SITE DATA FORM

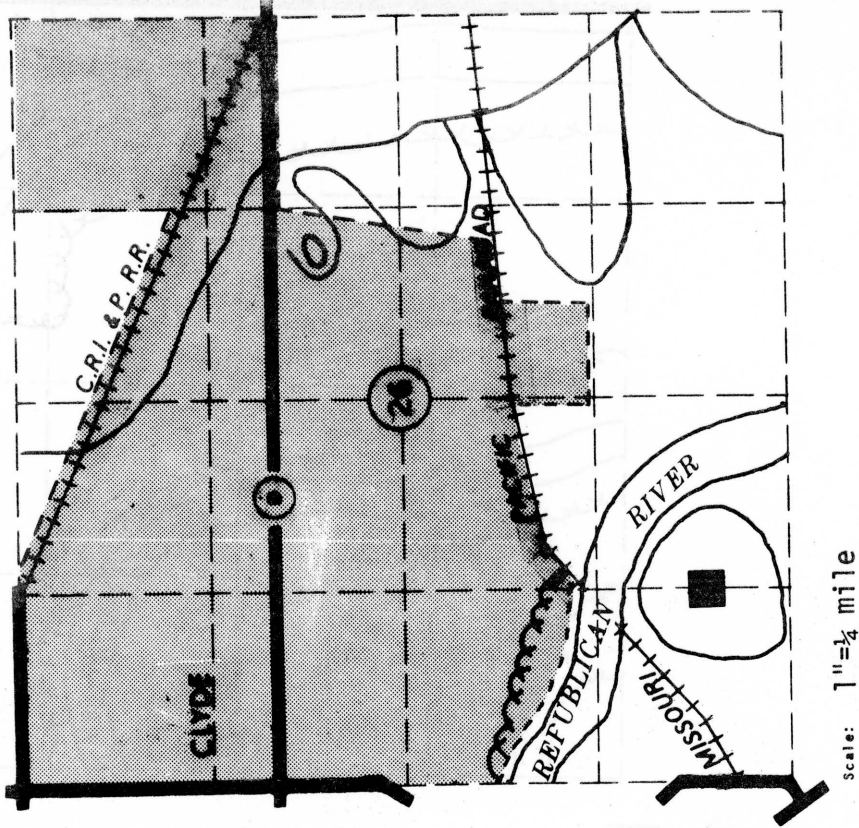
Site No. SG+7 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location SW $\frac{1}{4}$  Sec. 26 Twp. 5S Range 1W  
 Owner Arch Boling, Sr. Clyde, Kansas  
 Nature of Deposit Wet Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab No. 70-1312  
 Specific Gravity (Sat.) 2.57 (Dry)  
 Los Angeles Wear 37.0 (D)  
 Absorption 0.96 Soundness 0.99  
 Wt. Cu.Ft. 1da 1.46 Str. Ratio 3da 1.44  
 Remarks Location 15-2 Materials Department





# MATERIAL SITE DATA FORM

Site No. SG+8 Date June, 1977  
Qa1  
 Material Sand and Gravel County Cloud  
 Location SE 1/4 Sec. 36 Twp. 5S Range 1W  
 Owner Charles K. Chartier 525 E. 9th Concordia, Kansas  
 name address  
 Nature of Deposit Wet Accessibility Good Site located on Plate III  
 Status of Site Open Materials Site; Sampled

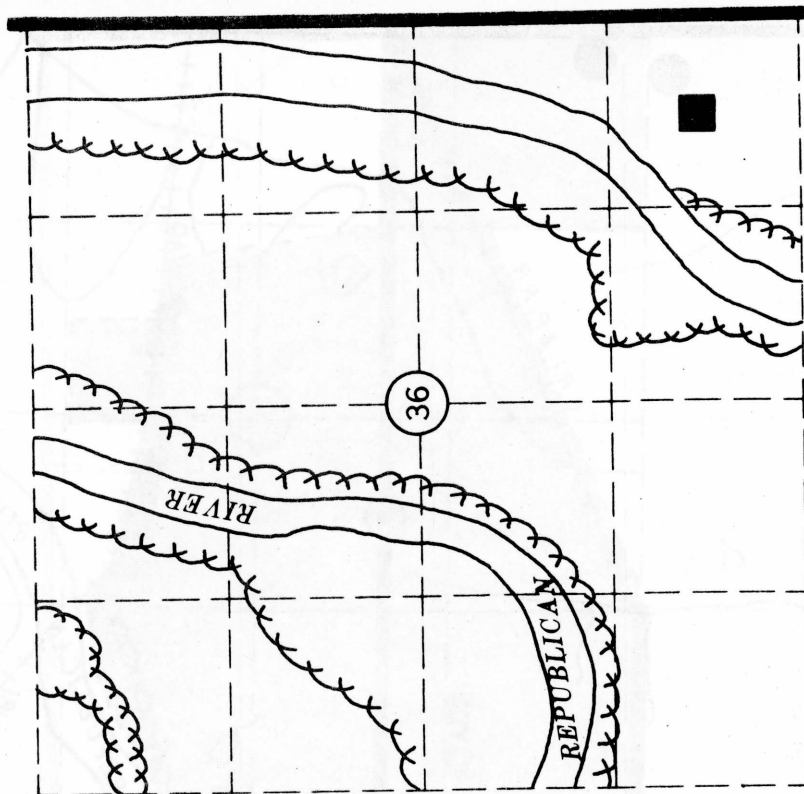
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |    |    |    |    |    | Wash 200 | S.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|----|----|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1/2              | 3/4 | 3/8 | 4  | 8  | 16 | 30 | 50 | 100      |      |      |      |
|           |                            |                      |                   | 0                | 2   | 12  | 49 | 80 | 91 | 96 | 96 | 98       | 3.25 | 4.27 |      |
|           |                            |                      |                   | 0                | 1   | 8   | 26 | 55 | 78 | 97 | 98 | 98       | 1.14 | 3.63 |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |    |    |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To SHC Lab. No. 91161/5449

Specific Gravity (sat.) 2.58/2.62 (dry)  
 Los Angeles Wear 33.2/34.2 (D)  
 Absorption 0.4 Soundness 0.96/0.98  
 Mt. Cu.Ft. 101.8/116.6 Str. Ratio 1da 1.42/1.67 3da 1.39/1.55  
 Remarks Location 15-16 Materials Department  
Material probably pumped from river.



Scale: 1" = 1/4 mile

FS+9 \_\_\_\_\_  
Kd \_\_\_\_\_

Site No. \_\_\_\_\_ Date June, 1977 \_\_\_\_\_

Material \_\_\_\_\_ Cloud \_\_\_\_\_

Location \_\_\_\_\_ SE  $\frac{1}{4}$  \_\_\_\_\_ Sec. 22 \_\_\_\_\_ Twp. 7S \_\_\_\_\_ Range 1W \_\_\_\_\_

Owner \_\_\_\_\_ George D. Gunter \_\_\_\_\_ Miltonvale, Kansas \_\_\_\_\_  
name address

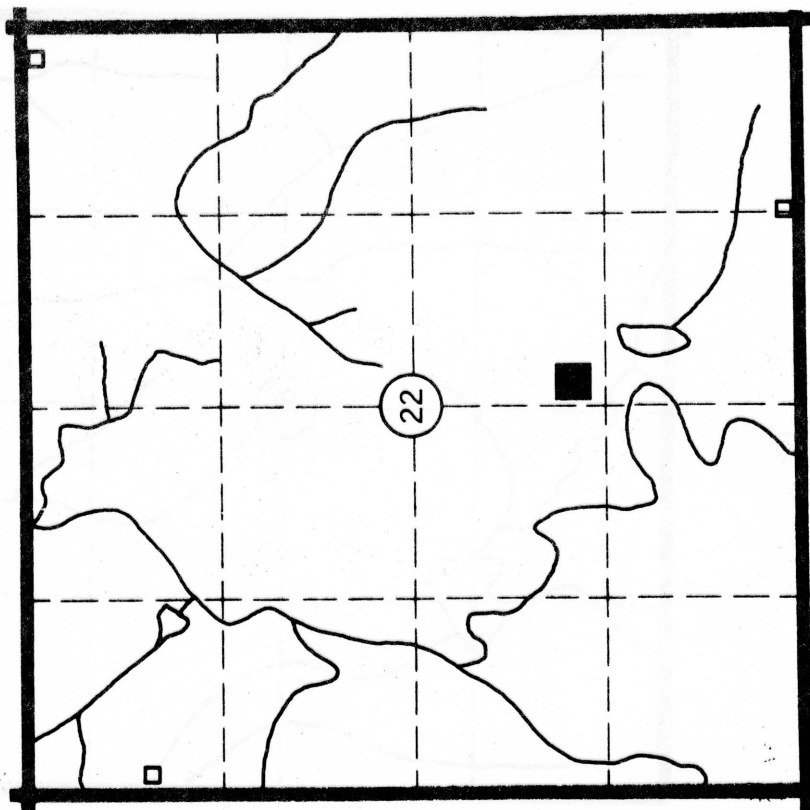
Nature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ Accessibility \_\_\_\_\_ Good \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ VI \_\_\_\_\_

Status of Site \_\_\_\_\_ Open Materials Site; Sampled \_\_\_\_\_

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Dakota Formation  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Location 15-19 Materials Department  
 Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  mile



# MATERIAL SITE DATA FORM

Site No. SG+10 Date June, 1977  
Qti  
 Material Sand and Gravel County Cloud  
 Location SW $\frac{1}{4}$  Sec. 29 Twp. 7S Range 5W  
 Owner James Reiter C/O Robert Walker Asherville, Kansas  
name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Open Materials Site; Sampled

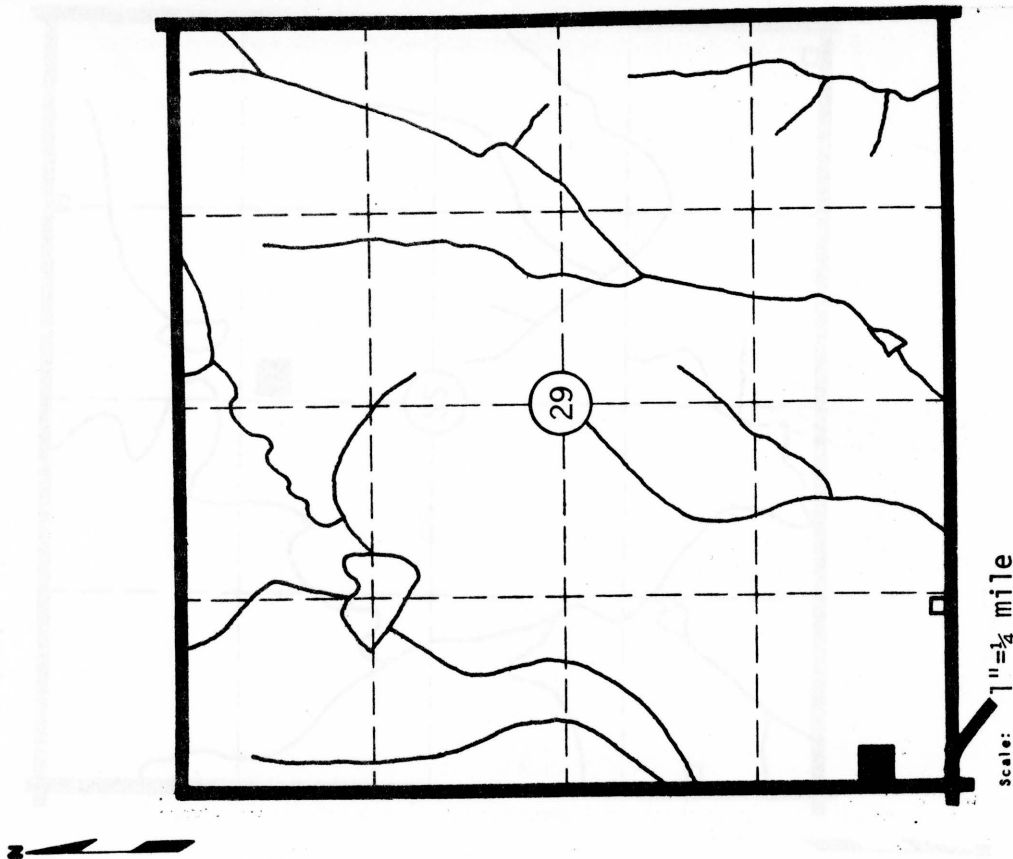
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |    |     |     |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|----|-----|-----|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1/2              | 3/4 | 1  | 5/8 | 3/2 | 1  | 2  | 3  |          |      |      |      |
|           | Ave.                       |                      |                   | 1                | 5   | 9  | 14  | 28  | 58 | 81 | 85 | 12.7     | 2.81 | 19   | 6    |
|           |                            |                      |                   | 2                | 17  | 27 | 36  | 54  | 76 | 90 | 92 | 6.8      | 3.94 | 20   | 6    |
|           |                            |                      |                   |                  |     |    |     | 4   | 20 | 45 | 59 | 33.2     | 1.28 | 21   | 7    |
|           |                            |                      |                   |                  |     |    |     |     |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |    |     |     |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |    |     |     |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Illinoian Terrace  
 Material Similar To SHC Lab. No. 70-159

Specific Gravity (Sat.) 2.61 (Dry) 28.4 (D)  
 Los Angeles Near 0.40 Soundness 0.95  
 Absorption 0.40 Str. Ratio 0.95  
 Wt. Cu.Ft. Location 15-18 Materials Department  
 Remarks Location 15-18 Materials Department



# MATERIAL SITE DATA FORM

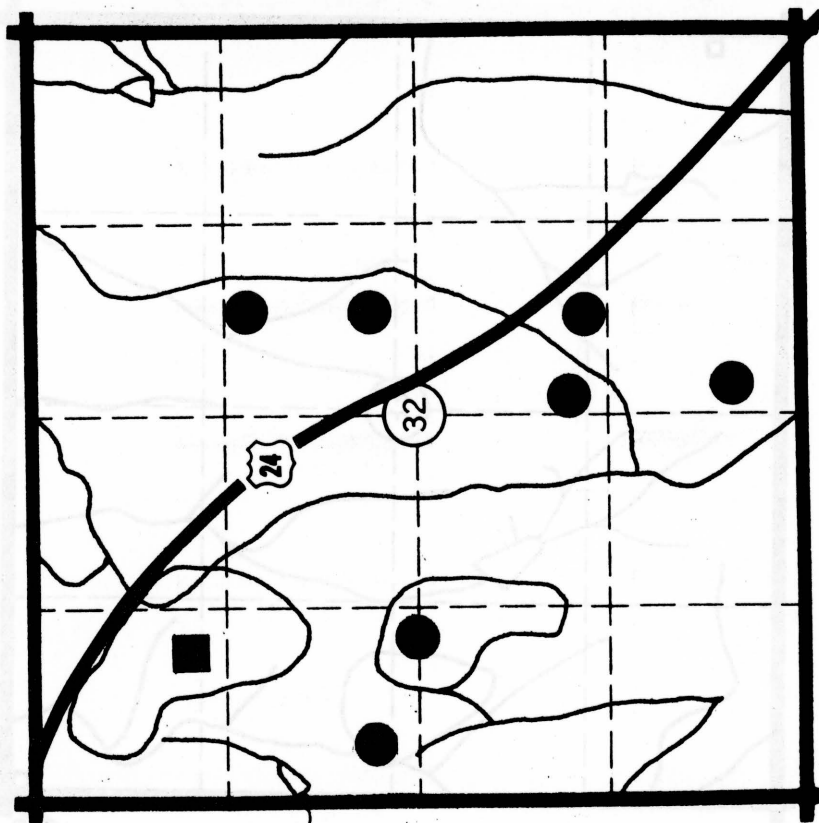
Site No. SG+11 Date June, 1977  
Qti  
 Material Sand and Gravel County Cloud  
 Location NW 1/4, NWP 1/4 Sec. 32 Twp. 7S Range 5W  
 Owner James Reiter C/O Robert Walker Asherville, Kansas  
 Name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |    |    |    |     | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|----|----|----|-----|----------|------|------|------|
|           |                            |                      |                   | 1/2              | 3/4 | 3/8 | 1/4 | 16 | 30 | 50 | 100 |          |      |      |      |
|           |                            |                      |                   | 0                | 3   | 11  | 17  | 25 | 40 | 70 | 94  | 99       | .54  | 3.59 |      |
|           |                            |                      |                   | 0                | 3   | 7   | 12  | 18 | 32 | 59 | 93  | 97       | 2.13 | 3.22 |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |    |     |          |      |      |      |

## CORRELATION DATA

Geological Age \_\_\_\_\_  
 Geological Source \_\_\_\_\_  
 Material Similar To SHC Lab. No. 82423/21716  
 Specific Gravity (Sat.) 2.62/2.61 (Dry) \_\_\_\_\_  
 Los Angeles Wear 28.8/31.8 (D)  
 Absorption .80 Soundness 0.95/0.95  
 Wt. Cu.Ft. 112.8/108.53 Str. Ratio 1da 1.35/1.05 3da 1.36/1.14  
 Remarks Location 15-3 Materials Department



Scale: 1" = 1/4 mile

# MATERIAL SITE DATA FORM

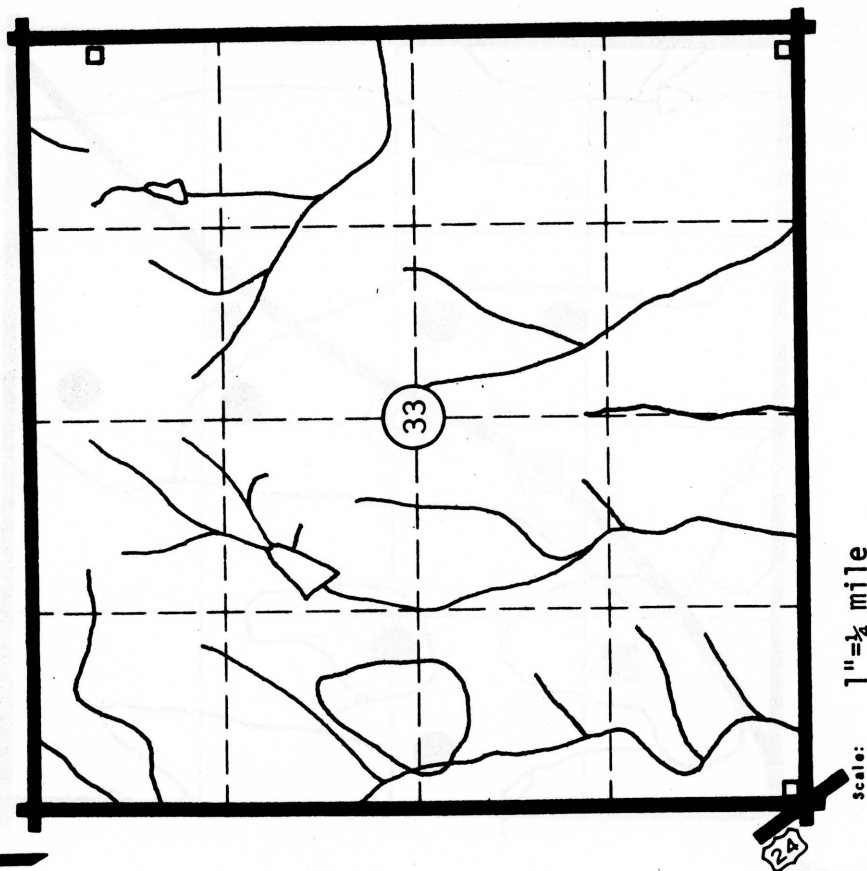
Site No. FS-12 Date June, 1977  
Qtz  
 Material Fine Sand County Cloud  
 Location NW 1/4 Sec. 33 Twp. 7S Range 5W  
 Owner Edward K. Hund 403 S. River Beloit, Kansas  
name address  
 Nature of Deposit Dry Accessibility Good Site located on Plate VII  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|-----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |
|           |                            |                      |                   | 0                | 1   | 2   | 6   | 9 | 18 | 47 | 91 | 98       | 1.0  | 2.72 |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Illinoian Terrace  
 Material Similar To SHC Lab. No. 82424  
 Specific Gravity (Sat.) 2.62 (dry)  
 Los Angeles Wear 31.2 (D)  
 Absorption 0.94  
 wt. Cu. Ft. 110.0 str. ratio 1da 1.14 3da 1.16  
 Remarks Location 15-7 Materials Department



# MATERIAL SITE DATA FORM

Site No. SG+13 Date June, 1977  
 Material Sand and Gravel County Cloud  
 Location NW $\frac{1}{4}$  Sec. 4 Twp. 8S Range 5W  
 Owner Richard S. Fetters et al. Glasco, Kansas  
 Name Richard S. Fetters et al. address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Open Materials Site; Sampled

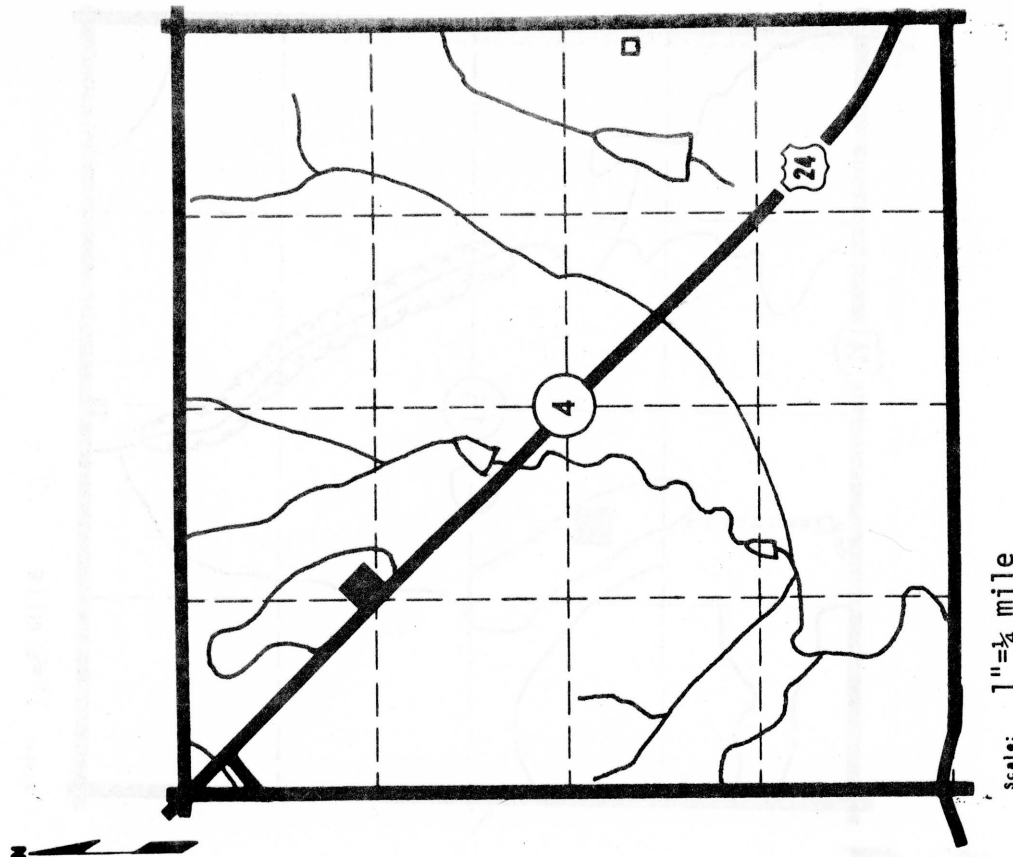
## EXPLORATION DATA

| Test Hole | Material bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |     |    |    |    |     |      | Wash 200 | S.F. | L.L. | P.L. |
|-----------|-------------------------|----------------------|-------------------|------------------|-----|-----|-----|-----|----|----|----|-----|------|----------|------|------|------|
|           |                         |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 1/8 | 16 | 30 | 50 | 100 | 200  |          |      |      |      |
|           | Ave.                    |                      |                   | 0                | 1   | 6   | 9   | 13  | 24 | 24 | 39 | 61  | 83   | 13.1     | 2.36 | 17   | 1    |
|           |                         |                      |                   |                  |     |     |     |     |    |    |    |     |      |          |      |      |      |
|           |                         |                      |                   | 4                | 12  | 20  | 27  | 44  | 65 | 85 | 92 | 92  | 92   | 6.6      | 3.49 | 17   | 2    |
|           |                         |                      |                   |                  |     |     |     |     | 1  | 1  | 8  | 79  | 12.5 | 0.89     | 19   | N.P. |      |
|           |                         |                      |                   |                  |     |     |     |     |    |    |    |     |      |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Illinoian Terrace  
 Material Similar To SHC Lab. No. 70-160

Specific Gravity (sat.) 2.61 (dry)  
 Los Angeles Wear 30.1 (D)  
 Absorption 0.70 Soundness 0.93  
 Wt. Cu.Ft. Str. Ratio  
 Remarks Location 15-8 Materials Department



# MATERIAL SITE DATA FORM

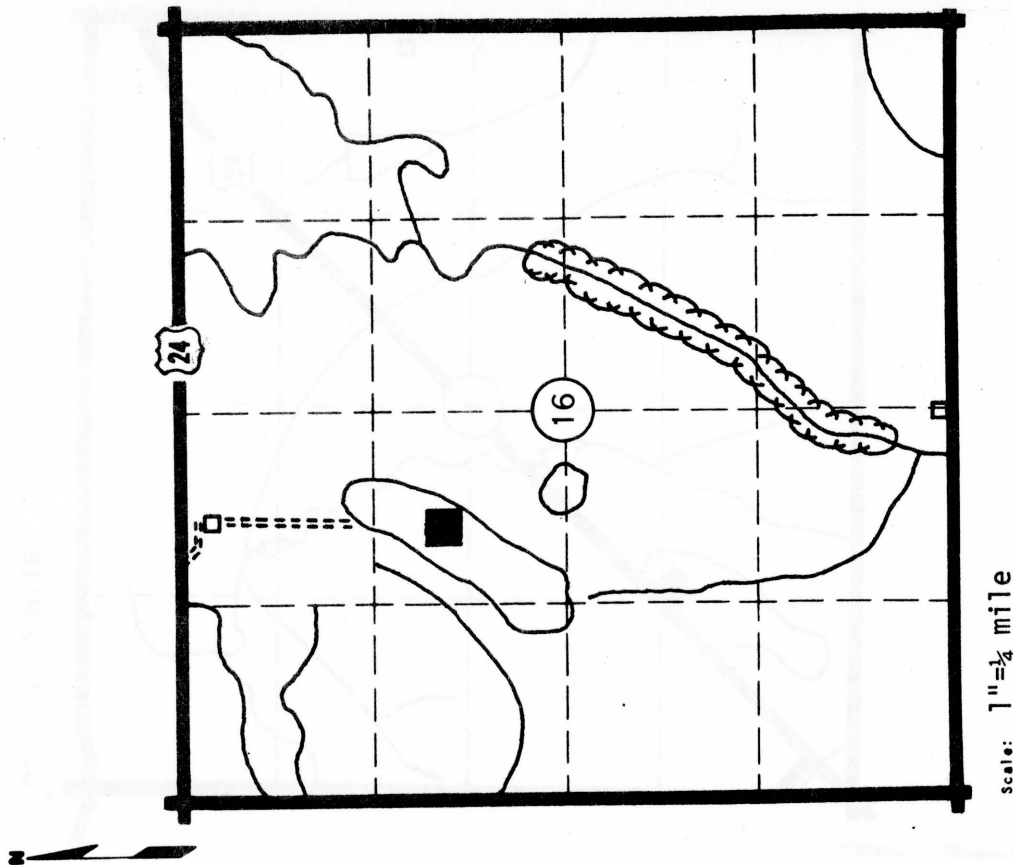
Site No. SG+14 Date June, 1977  
 Material Sand and Gravel County Cloud  
 Location NW 1/4 Sec. 16 Twp. 8S Range 4W  
 Owner Gale E. Ethridge et. ux Glasco, Kansas  
 Name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test<br>hole | Material<br>at<br>bottom<br>of hole | Depth<br>of<br>over-<br>burden | Depth<br>of<br>Material | Percent Retained |     |     |    |    |    |    |    |      |      | Wash<br>200 | G. F. | L. L. | P. I. |
|--------------|-------------------------------------|--------------------------------|-------------------------|------------------|-----|-----|----|----|----|----|----|------|------|-------------|-------|-------|-------|
|              |                                     |                                |                         |                  |     |     |    |    |    |    |    |      |      |             |       |       |       |
|              |                                     |                                |                         | 1 1/2            | 3/4 | 3/8 | 4  | 8  | 16 | 30 | 50 | 100  |      |             |       |       |       |
|              | Ave.                                |                                |                         | 1                | 5   | 14  | 24 | 31 | 36 | 40 | 55 | 74   | 20.0 | 2.80        | 23    | 6     |       |
|              |                                     |                                |                         | 0                | 5   | 31  | 54 | 67 | 74 | 76 | 78 | 81   | 16.3 | 4.66        | 29    | 12    |       |
|              |                                     |                                |                         |                  |     |     | 1  | 1  | 2  | 12 | 70 | 14.4 | 0.86 | 20          | N.P.  |       |       |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Illinoian Terrace  
 Material Similar To SHC Lab. No. 69-3945  
 Specific Gravity (sat.) 2.65 (Dry)  
 Los Angeles Wear 31.2 (C)  
 Absorption 2.55 Soundness 0.94  
 Wt. Cu.Ft. Str. Ratio  
 Remarks Location 15-20 Materials Department



# MATERIAL SITE DATA FORM

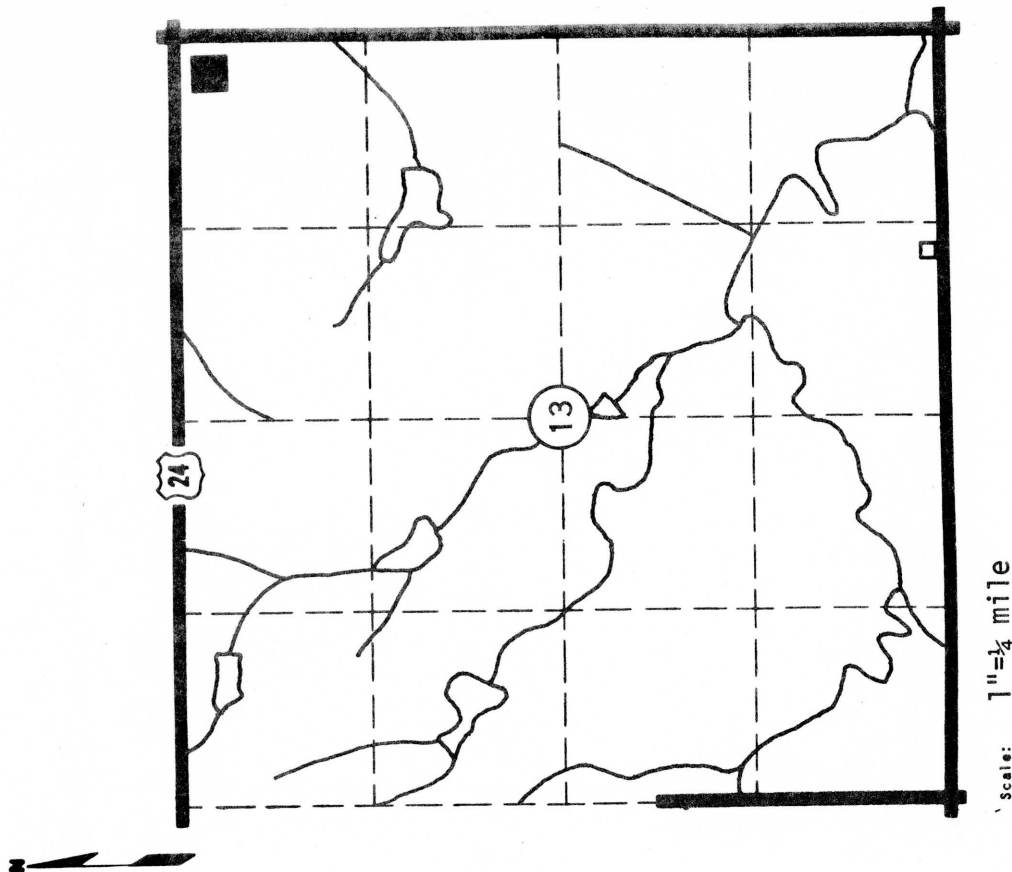
Site No. SS+15 Date June, 1977  
Kd  
 Material Sandstone County Cloud  
 Location NE $\frac{1}{4}$  Sec. 13 Twp. 8S Range 2W  
 Owner Walter D. Bergin, Et ux Route 1 City Center, KS  
 Name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate IX  
 Status of Site Open Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |     |    |    |    | Wash 200 | G.F. | L.L. | P.L. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|-----|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 1/8 | 16 | 30 | 50 | 100      |      |      |      |
|           |                            |                      |                   |                  |     |     |     |     | 0  | 1  | 1  | 10       | 47   | 24   | 7    |
|           |                            |                      |                   |                  |     |     |     |     |    |    | 0  | 54       | 18   | -    | 0    |
|           |                            |                      |                   |                  |     | 0   | 1   | 1   | 1  | 2  | 7  | 13       |      | -    | 0    |
|           |                            |                      |                   |                  |     |     |     |     |    |    | 0  | 61       | 18   | -    | 0    |
|           |                            |                      |                   |                  |     |     |     |     |    | 0  | 10 | 71       | 12   | -    | 0    |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Dakota Formation  
 Material Similar To SHC Lab. No. AA-8947  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Location 15-14 Materials Department





# OPEN MATERIALS SITES ; NOT SAMPLED

## LEGEND

===== Trail or lane

———— Road

++++++ Railroad

~~~~~ Hedge or trees

~~~~~  
Name Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake

■ Open materials sites; sampled

● Open materials sites; not sampled

▼ Prospective materials sites; sampled

◆ Prospective materials sites; not sampled

⑤ Center of section

□ Dwelling

⊕ Cemetery

▣ School

⊕ Church

■ Town or city

$$\frac{LS+76}{Kg}$$

Site No.                      Date June, 1977

Material Limestone County Cloud

Location SW $\frac{1}{4}$  Sec. 2 Twp. 5S Range 5W

Owner Elsie Nelson et al name Jamestown, Kansas address                     

Nature of Deposit Dry Accessibility Fair Site Located on Plate I

Status of Site Open Materials Site; Not Sampled

[illegible]

## Cretaceous

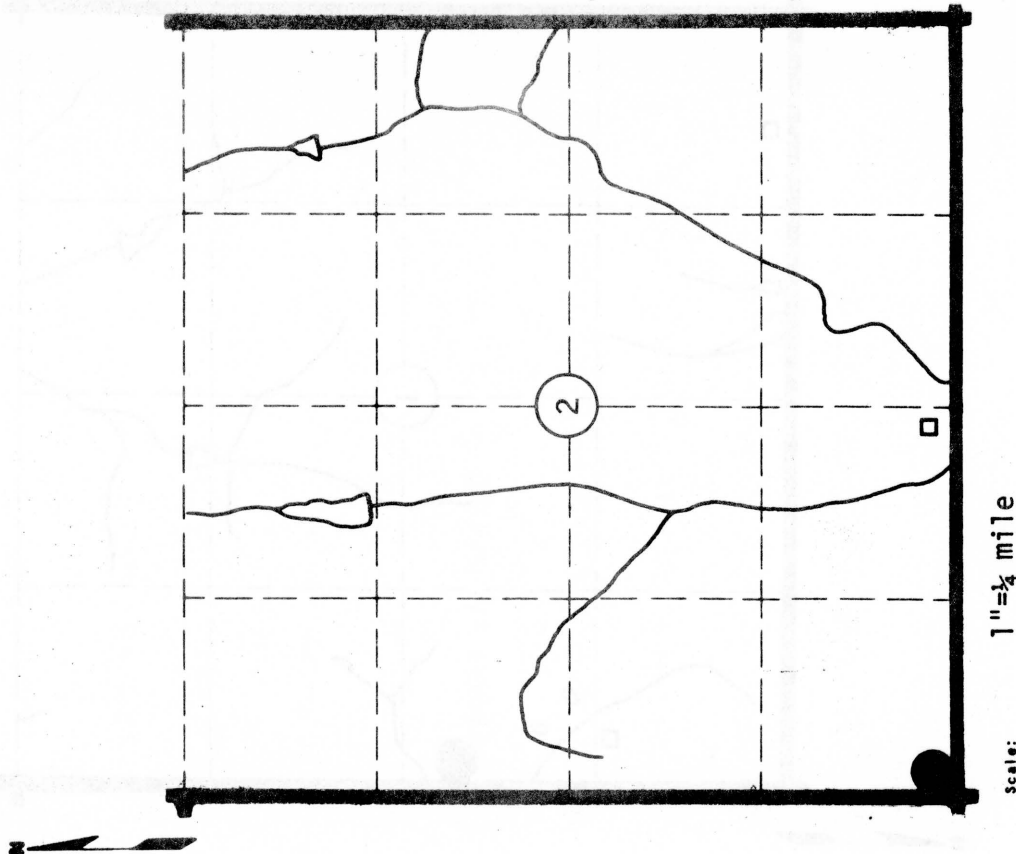
Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) ————— (Dry) —————

Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



$1'' = \frac{1}{4}$  mile

# MATERIAL SITE DATA FORM

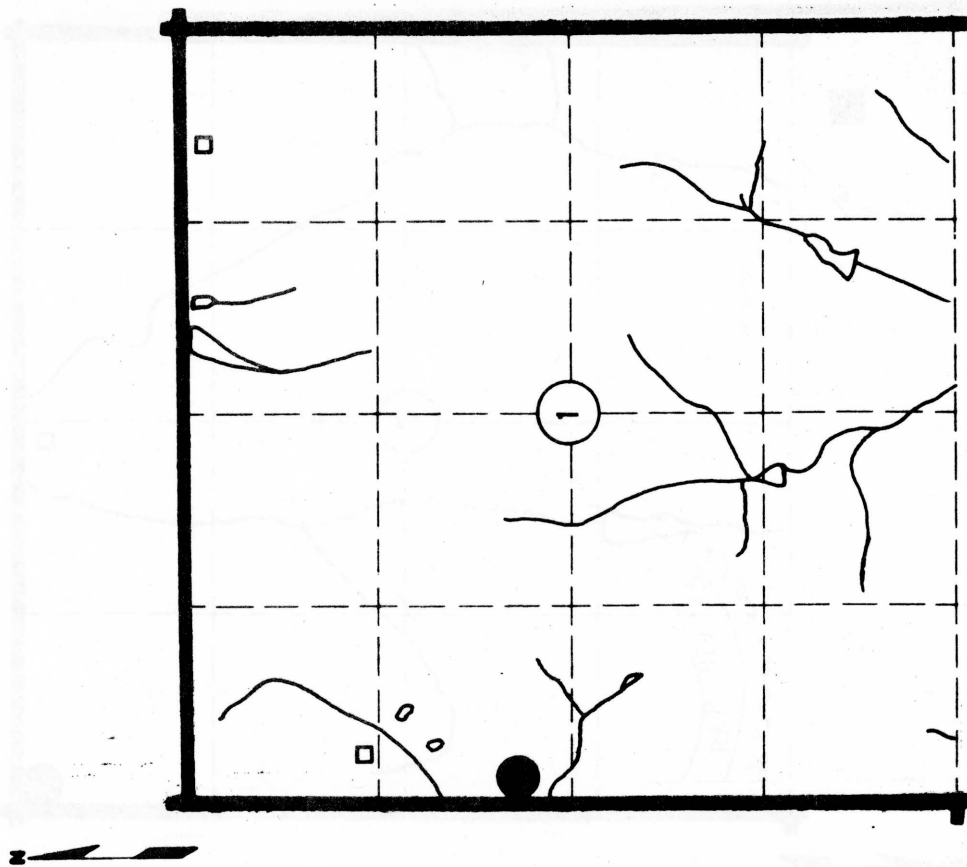
Site No. LS+17 Date June, 1977  
Kg  
 Material Limestone County Cloud  
 Location NW 1/4 Sec. 1 Twp. 5S Range 5W  
 Owner A. L. Flewelling address Jamestown, Kansas  
 Name A. L. Flewelling  
 Nature of Deposit Dry Accessibility Fair Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained |     |     |   |   |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1"=1/4 mile

## LS+18

June, 1977

# Cloud

County \_\_\_\_\_

Location NE  $\frac{1}{4}$  Sec. 12 Twp. 5S Range 5W

**Roger C. Nelson**  
**Jamestown, Kansas**

| owner | name | address |
|-------|------|---------|
|       |      |         |

Nature of Deposit Dry Accessibility Good Site Located on Plate ---

**Open Materials Site; Not Sampled**

### EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age \_\_\_\_\_ Cretaceous \_\_\_\_\_  
 Geological Source \_\_\_\_\_ Greenhorn Limestone Formation, Pfeifer Shale Member \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_

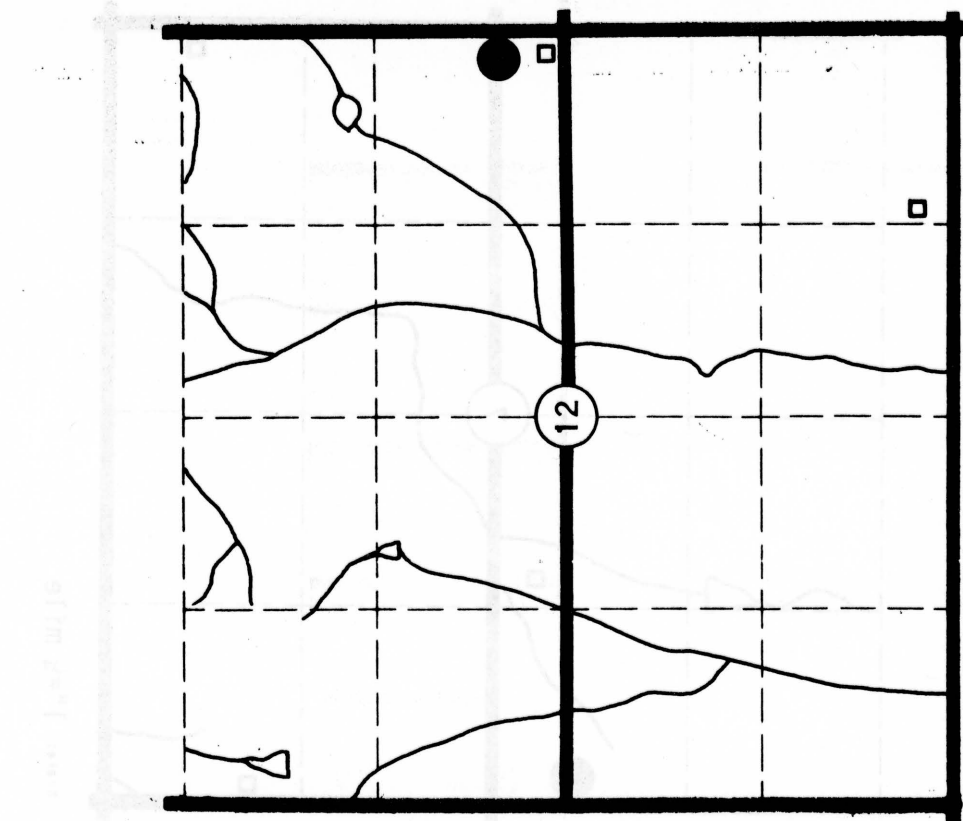
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

**Absorption** ————— **Soundness** —————

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



scale:  $1'' = \frac{1}{4}$  mile

LS+19 \_\_\_\_\_  
 Kg \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone \_\_\_\_\_ County \_\_\_\_\_ Cloud \_\_\_\_\_  
 Location NW $\frac{1}{4}$  \_\_\_\_\_ Sec. 7 \_\_\_\_\_ Twp. 5S \_\_\_\_\_ Range 4W \_\_\_\_\_  
 Owner A.R. Anderson \_\_\_\_\_ Jamestown, Kansas \_\_\_\_\_ address \_\_\_\_\_  
 Nature of Deposit Dry \_\_\_\_\_ Accessibility Good \_\_\_\_\_ Site Located on Plate I \_\_\_\_\_  
 Status of Site Open Materials Site; Not Sampled \_\_\_\_\_

[illegible]

## Cretaceous

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member

Material Similar To \_\_\_\_\_

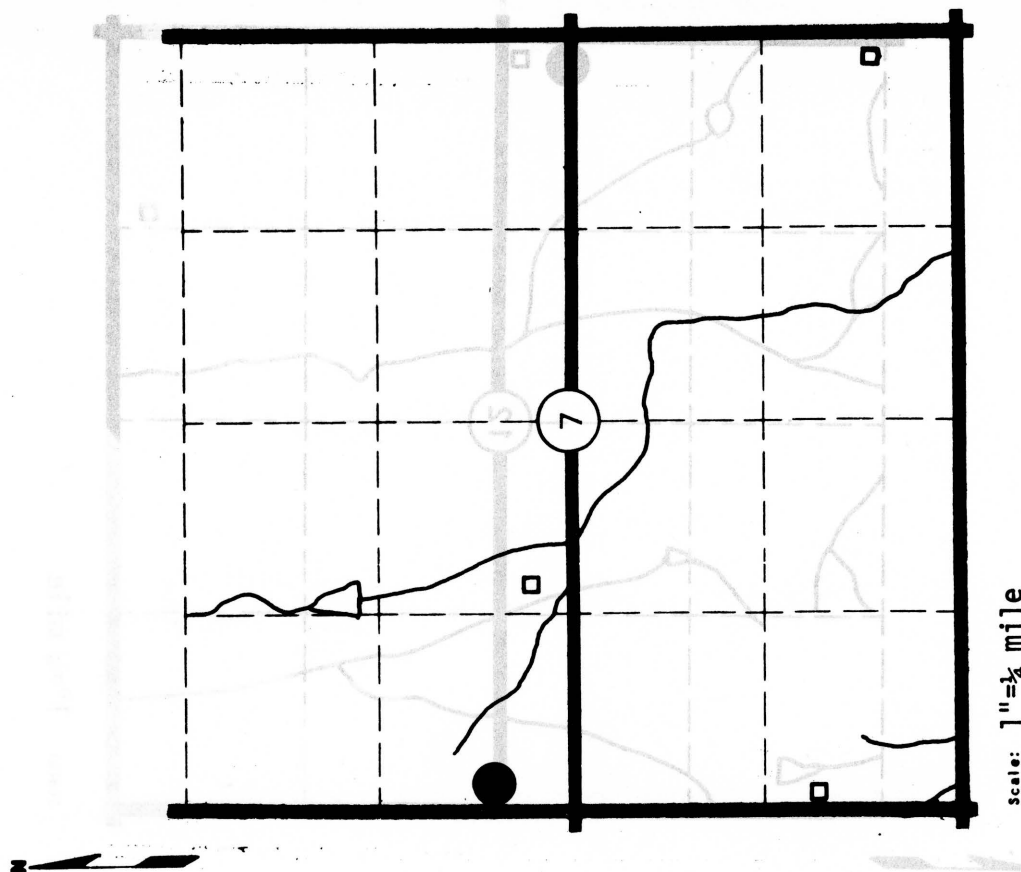
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Assorption | Soundness |
|------------|-----------|
|            |           |

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



LS+20  
 Kg

Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County \_\_\_\_\_  
 Location NE $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 6 Twp. 5S Range 4W  
 Owner Henry C. Anderson Jamestown, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous  
Geological Age  
Greenhorn Limestone Formation, Pfeifer Shale Member  
Geological Source

Material Similar To \_\_\_\_\_

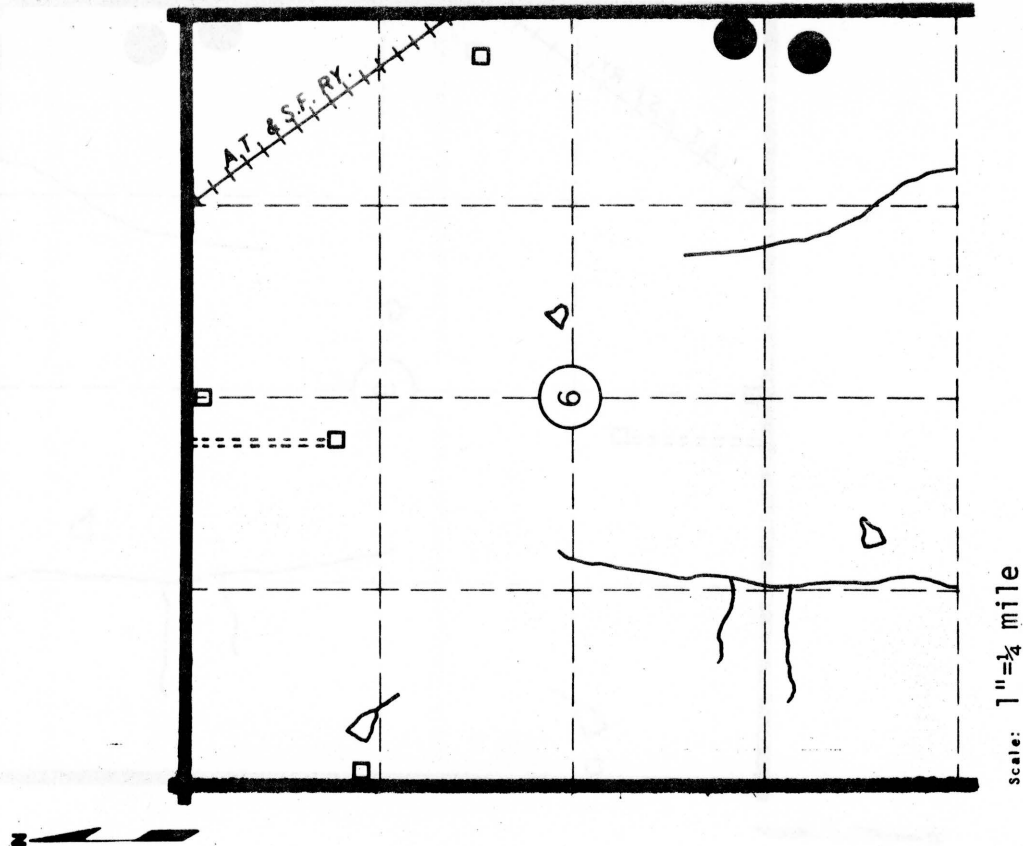
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear

| Absorption | Soundness |
|------------|-----------|
|            |           |

| Wt. Cu.Ft. | Str. Ratio |
|------------|------------|
| 100        | 1.00       |
| 200        | 1.00       |
| 300        | 1.00       |
| 400        | 1.00       |
| 500        | 1.00       |
| 600        | 1.00       |
| 700        | 1.00       |
| 800        | 1.00       |
| 900        | 1.00       |
| 1000       | 1.00       |
| 1100       | 1.00       |
| 1200       | 1.00       |
| 1300       | 1.00       |
| 1400       | 1.00       |
| 1500       | 1.00       |
| 1600       | 1.00       |
| 1700       | 1.00       |
| 1800       | 1.00       |
| 1900       | 1.00       |
| 2000       | 1.00       |
| 2100       | 1.00       |
| 2200       | 1.00       |
| 2300       | 1.00       |
| 2400       | 1.00       |
| 2500       | 1.00       |
| 2600       | 1.00       |
| 2700       | 1.00       |
| 2800       | 1.00       |
| 2900       | 1.00       |
| 3000       | 1.00       |
| 3100       | 1.00       |
| 3200       | 1.00       |
| 3300       | 1.00       |
| 3400       | 1.00       |
| 3500       | 1.00       |
| 3600       | 1.00       |
| 3700       | 1.00       |
| 3800       | 1.00       |
| 3900       | 1.00       |
| 4000       | 1.00       |
| 4100       | 1.00       |
| 4200       | 1.00       |
| 4300       | 1.00       |
| 4400       | 1.00       |
| 4500       | 1.00       |
| 4600       | 1.00       |
| 4700       | 1.00       |
| 4800       | 1.00       |
| 4900       | 1.00       |
| 5000       | 1.00       |
| 5100       | 1.00       |
| 5200       | 1.00       |
| 5300       | 1.00       |
| 5400       | 1.00       |
| 5500       | 1.00       |
| 5600       | 1.00       |
| 5700       | 1.00       |
| 5800       | 1.00       |
| 5900       | 1.00       |
| 6000       | 1.00       |
| 6100       | 1.00       |
| 6200       | 1.00       |
| 6300       | 1.00       |
| 6400       | 1.00       |
| 6500       | 1.00       |
| 6600       | 1.00       |
| 6700       | 1.00       |
| 6800       | 1.00       |
| 6900       | 1.00       |
| 7000       | 1.00       |
| 7100       | 1.00       |
| 7200       | 1.00       |
| 7300       | 1.00       |
| 7400       | 1.00       |
| 7500       | 1.00       |
| 7600       | 1.00       |
| 7700       | 1.00       |
| 7800       | 1.00       |
| 7900       | 1.00       |
| 8000       | 1.00       |
| 8100       | 1.00       |
| 8200       | 1.00       |
| 8300       | 1.00       |
| 8400       | 1.00       |
| 8500       | 1.00       |
| 8600       | 1.00       |
| 8700       | 1.00       |
| 8800       | 1.00       |
| 8900       | 1.00       |
| 9000       | 1.00       |
| 9100       | 1.00       |
| 9200       | 1.00       |
| 9300       | 1.00       |
| 9400       | 1.00       |
| 9500       | 1.00       |
| 9600       | 1.00       |
| 9700       | 1.00       |
| 9800       | 1.00       |
| 9900       | 1.00       |
| 10000      | 1.00       |

Remarks \_\_\_\_\_





# MATERIAL SITE DATA FORM

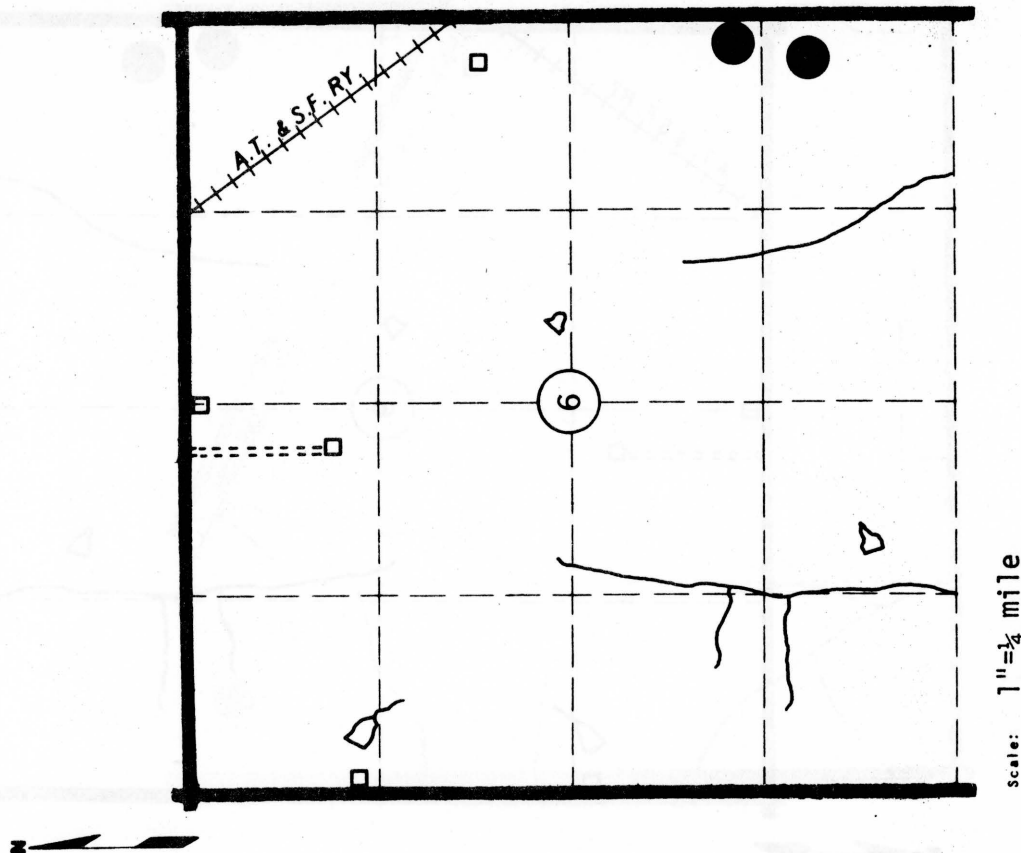
Site No. LS+21 Date \_\_\_\_\_  
Kg  
 Material Limestone County Cloud  
 Location SE $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 6 Twp. 5S Range 4W  
 Owner Henry C. Anderson name Jamestown, Kansas address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    | Wash 200 | G.F. | L.L. | P.I. |    |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----------|------|------|------|----|-----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 |          |      |      |      | 50 | 100 |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |    |     |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



## MATERIAL SITE DATA FORM

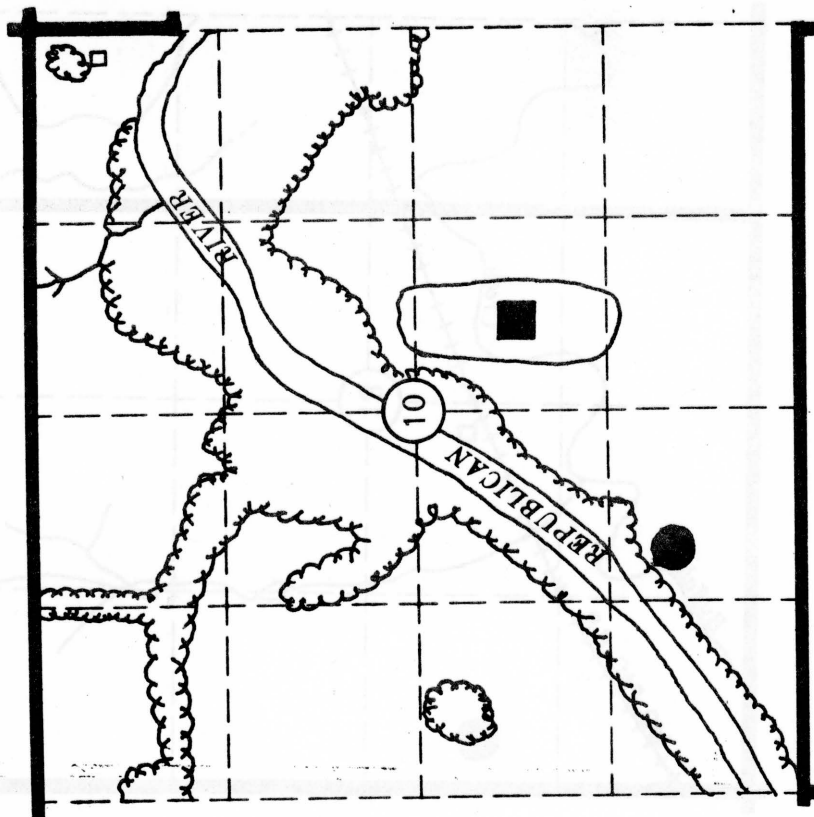
SG+22 \_\_\_\_\_  
Qa1 \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date June, 1977 \_\_\_\_\_  
 Material Sand & Gravel \_\_\_\_\_ County \_\_\_\_\_  
 Location SW $\frac{1}{4}$  \_\_\_\_\_ Sec. 10 \_\_\_\_\_ Twp. 5S \_\_\_\_\_ Range 4W \_\_\_\_\_  
 Owner R.H. Hansen \_\_\_\_\_  
 name \_\_\_\_\_  
 Nature of Deposit Wet \_\_\_\_\_ Accessibility Good \_\_\_\_\_ Site Located on Plate I \_\_\_\_\_  
 Status of Site Open Materials Site; Not Sampled \_\_\_\_\_

### EXPLORATION DATA

[illegible]

### CORRELATION DATA

Quaternary \_\_\_\_\_  
 Geological Age \_\_\_\_\_  
 Alluvium \_\_\_\_\_  
 Geological Source \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 \_\_\_\_\_  
 Remarks \_\_\_\_\_



scale:  $1'' = \frac{1}{4}$  mile

LS+23 \_\_\_\_\_  
 Kg \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date \_\_\_\_\_ June, 1977  
 Material \_\_\_\_\_ Limestone \_\_\_\_\_ County \_\_\_\_\_ Cloud \_\_\_\_\_  
 Location \_\_\_\_\_ NW $\frac{1}{4}$  \_\_\_\_\_ Sec. \_\_\_\_\_ 18 \_\_\_\_\_ Twp. \_\_\_\_\_ 5S \_\_\_\_\_ Range \_\_\_\_\_ 5W \_\_\_\_\_  
 Owner \_\_\_\_\_ Zella M. Collins \_\_\_\_\_ Jamestown, Kansas \_\_\_\_\_  
 name \_\_\_\_\_ address \_\_\_\_\_  
 Nature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ Accessibility \_\_\_\_\_ Fair \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ I \_\_\_\_\_  
 Status of Site \_\_\_\_\_ Open Materials Site; Not Sampled \_\_\_\_\_

[illegible]

**Geological Age** Cretaceous  
**Geological Source** Greenhorn Limestone Formation, Pfeifer Shale Member

Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) ————— (Dry) —————

Los Angeles Year

| Absorption | Soundness |
|------------|-----------|
|            |           |

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



$$\frac{\text{LS}+24}{\text{Kg}}$$

Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County Cloud  
 Location SE $\frac{1}{4}$  Sec. 17 Twp. 5S Range 5W  
 Owner Lynn Buckland Route 1 Address Concordia, KS  
 Nature of Deposit Dry Accessibility \_\_\_\_\_ Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous

Geological Age \_\_\_\_\_

Greenhorn Limestone Formation, Pfeifer Shale Member

Geological Source \_\_\_\_\_

Material Similar To \_\_\_\_\_

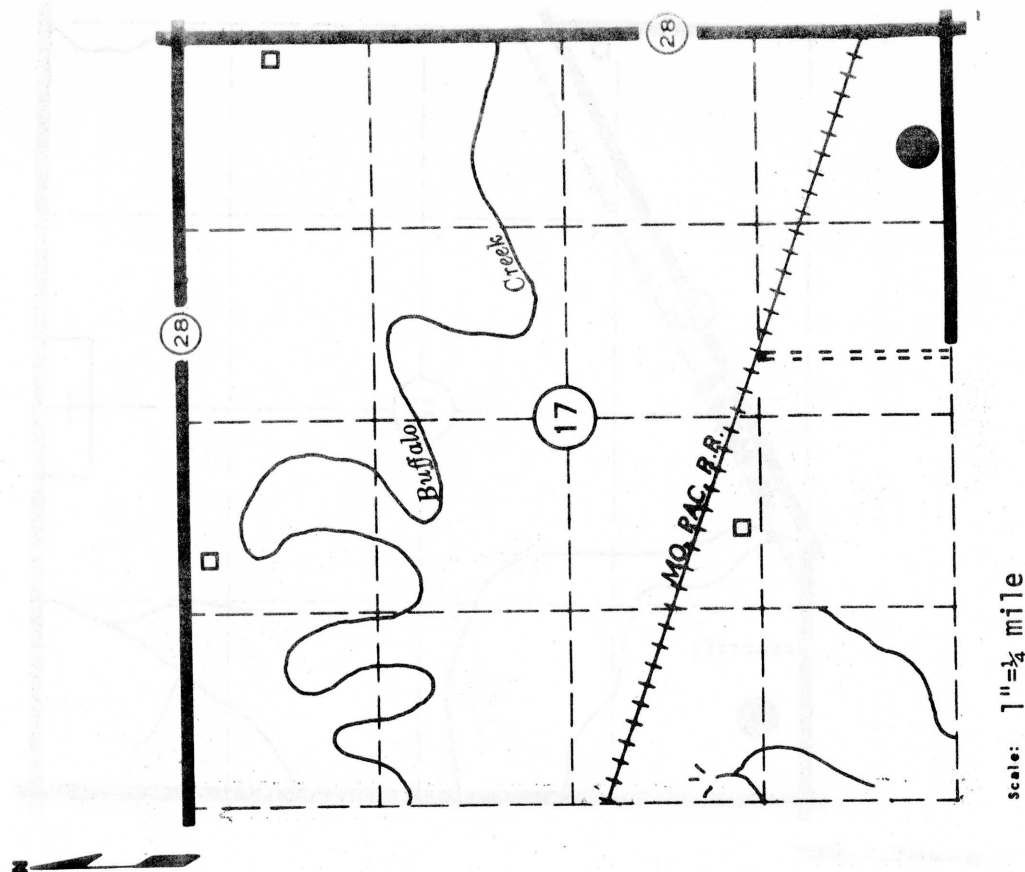
Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



scale:  $1'' = \frac{1}{4}$  mile

# MATERIAL SITE DATA FORM

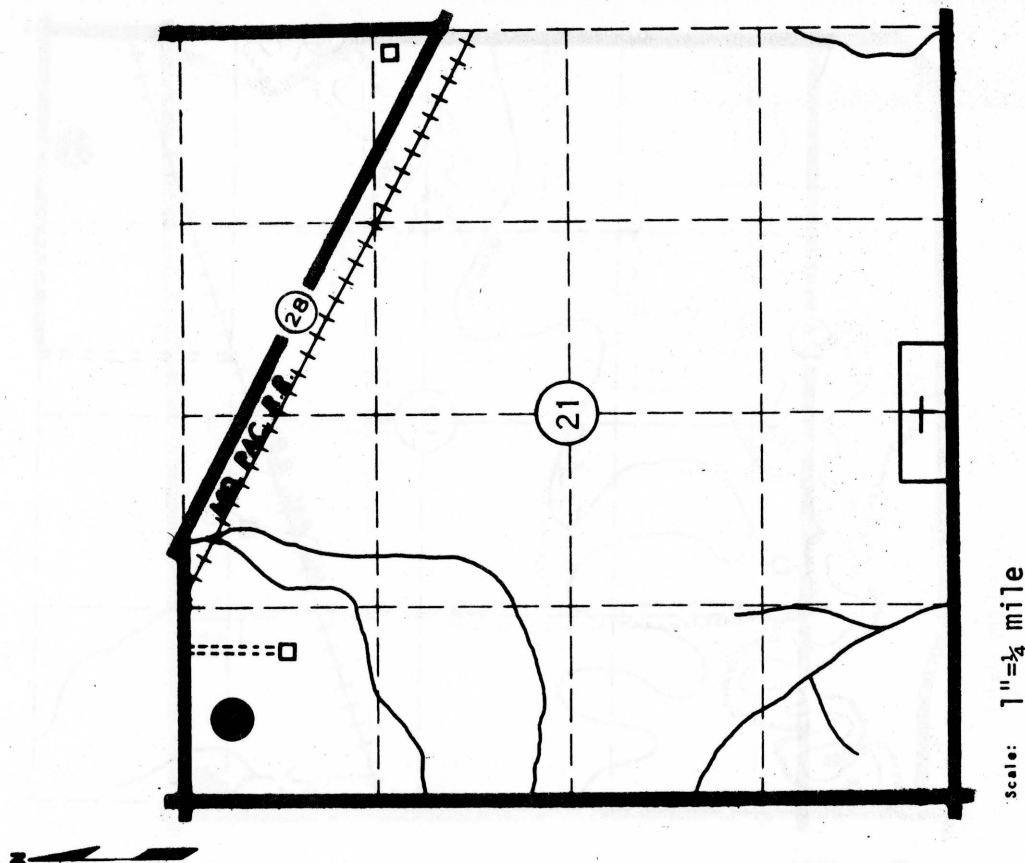
Site No. LS+25 Date June, 1977  
 Material Limestone County Cloud  
 Location NW 1/4 Sec. 21 Twp. 5S Range 5W  
 Owner Carl Johnson 6124 Smith Pl. Topeka, Kansas  
 Nature of Deposit Dry Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
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|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            | </                   |                   |                  |     |     |   |   |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



# MATERIAL SITE DATA FORM

LS+26 \_\_\_\_\_  
 Kg \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County Cloud  
 Location SW $\frac{1}{4}$  Sec. 19 Twp. 5S Range 5W  
 Owner W. J. Grennan et. al. Jamestown, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Cretaceous

Material Similar To \_\_\_\_\_

\_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

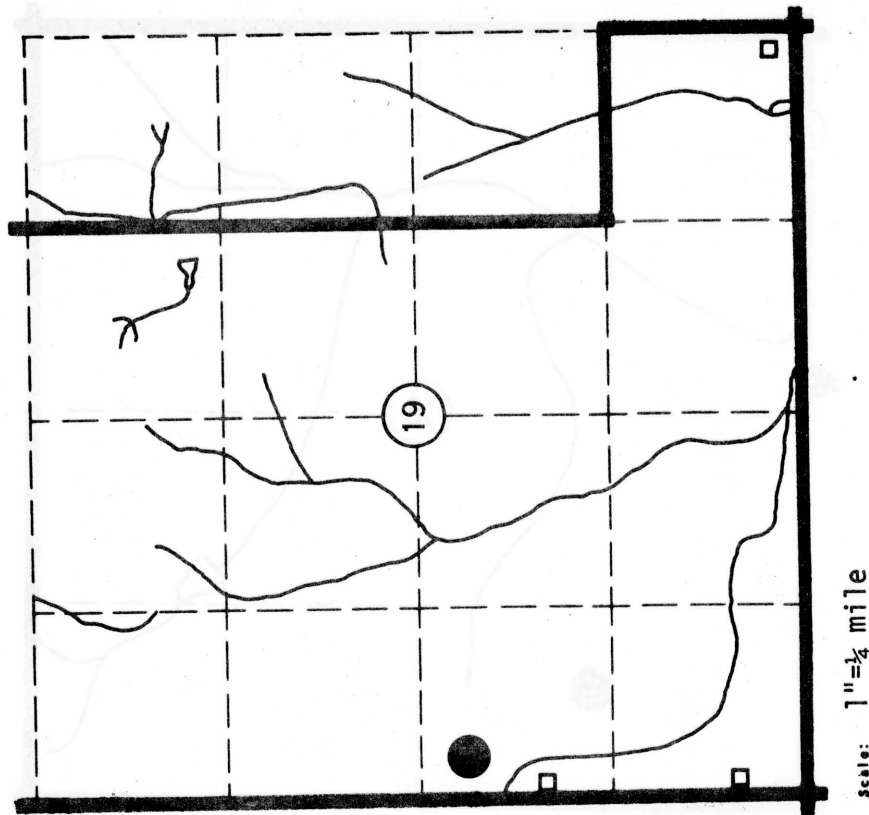
Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_

\_\_\_\_\_



$$\frac{LS+27}{kg}$$

Site No.                      Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 26 Twp. 5S Range 5W

Owner Dudley K. Thurston Route 1 Concordia, Kansas

Mature of Deposit Dry Accessibility Good Site Located on Plate I

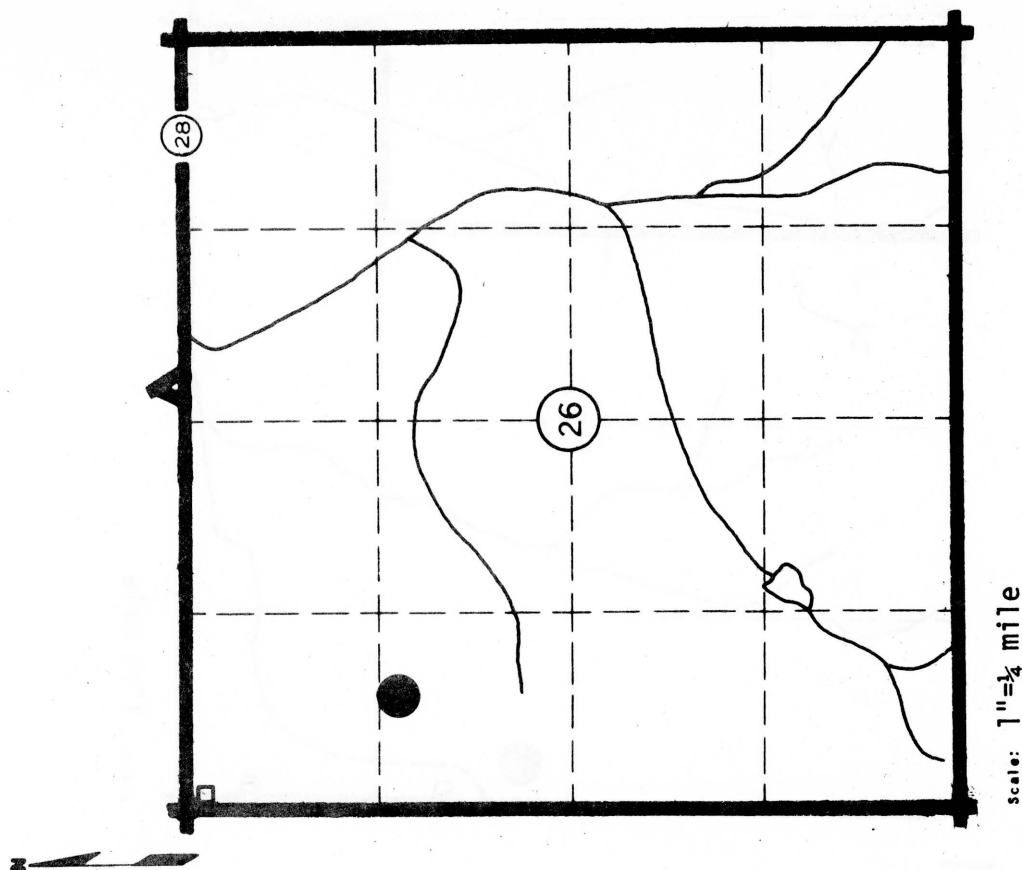
Status of Site Open Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Cretaceous  
 Geological Age \_\_\_\_\_  
 Greenhorn Limestone Formation, Pfeifer Shale Member  
 Geological Source \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 \_\_\_\_\_  
 Remarks \_\_\_\_\_  
 \_\_\_\_\_



scale: 1" =  $\frac{1}{4}$  mile



## LS+28

Site No. \_\_\_\_\_ Kg \_\_\_\_\_ date \_\_\_\_\_ June, 1977  
Material \_\_\_\_\_ Limestone \_\_\_\_\_ county \_\_\_\_\_ Cloud \_\_\_\_\_  
Location \_\_\_\_\_ NW $\frac{1}{4}$  \_\_\_\_\_ Sec. \_\_\_\_\_ 36 \_\_\_\_\_ Twp. \_\_\_\_\_ 5S \_\_\_\_\_ Range \_\_\_\_\_ 5W \_\_\_\_\_  
Owner \_\_\_\_\_ Joe E. Bergeson \_\_\_\_\_ Jamestown, Kansas \_\_\_\_\_ address \_\_\_\_\_  
Nature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ accessibility \_\_\_\_\_ Good \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ I \_\_\_\_\_  
Status of Site \_\_\_\_\_ Open Materials Site; Not Sampled \_\_\_\_\_

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation, Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

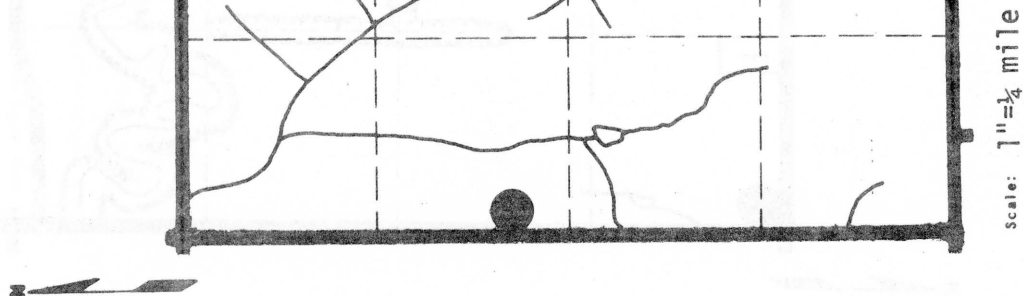
Specific Gravity (sat.) \_\_\_\_\_ (Dry) - \_\_\_\_\_

Los Angeles Wear

| Absorption | Soundness |
|------------|-----------|
| 100        | 100       |
| 90         | 90        |
| 80         | 80        |
| 70         | 70        |
| 60         | 60        |
| 50         | 50        |
| 40         | 40        |
| 30         | 30        |
| 20         | 20        |
| 10         | 10        |
| 0          | 0         |

wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks



$$\frac{\text{LS}+29}{\text{Kg}}$$

### EXPLORATION DATA

[illegible]

## Cretaceous

Greenhorn Limestone Formation, Pfeifer Shale Member

Material Similar To \_\_\_\_\_

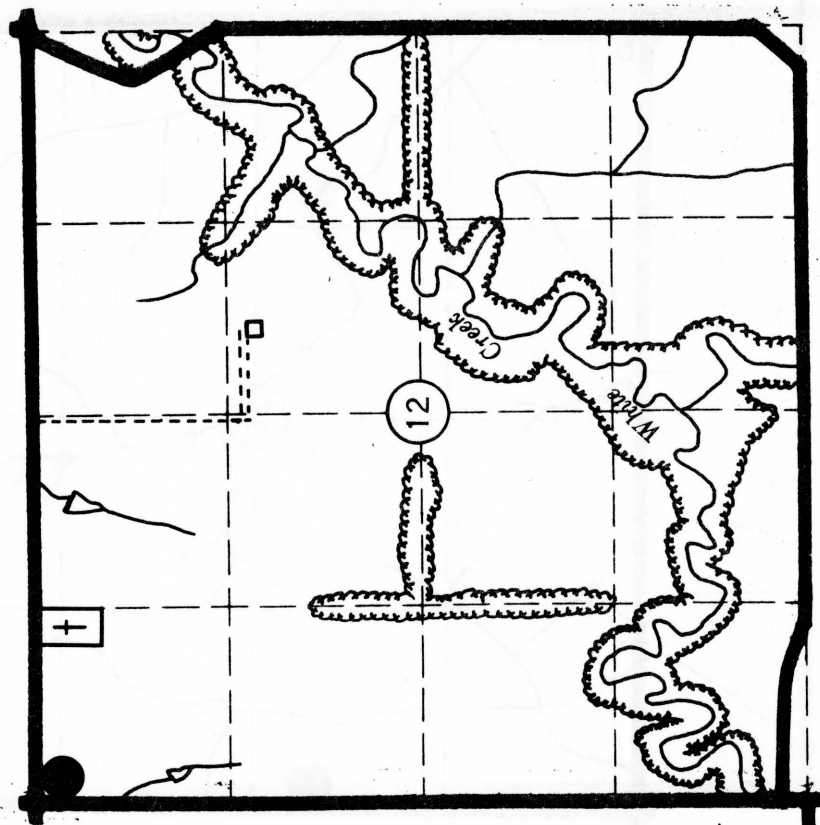
Specific Gravity (sat.) ————— (Dry) —————

Los Angeles Year \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



scale: 1" =  $\frac{1}{4}$  mile

LS+30 \_\_\_\_\_  
 Kg \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County Cloud  
 Location SE $\frac{1}{4}$  Sec. 6 Twp. 6S Range 4W  
 Owner Nellie French name \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Good Site Located on Plate I  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous  
Geological Age

Greenhorn Limestone Formation, Pfeifer Shale Member  
Geological Source

Material Similar To \_\_\_\_\_

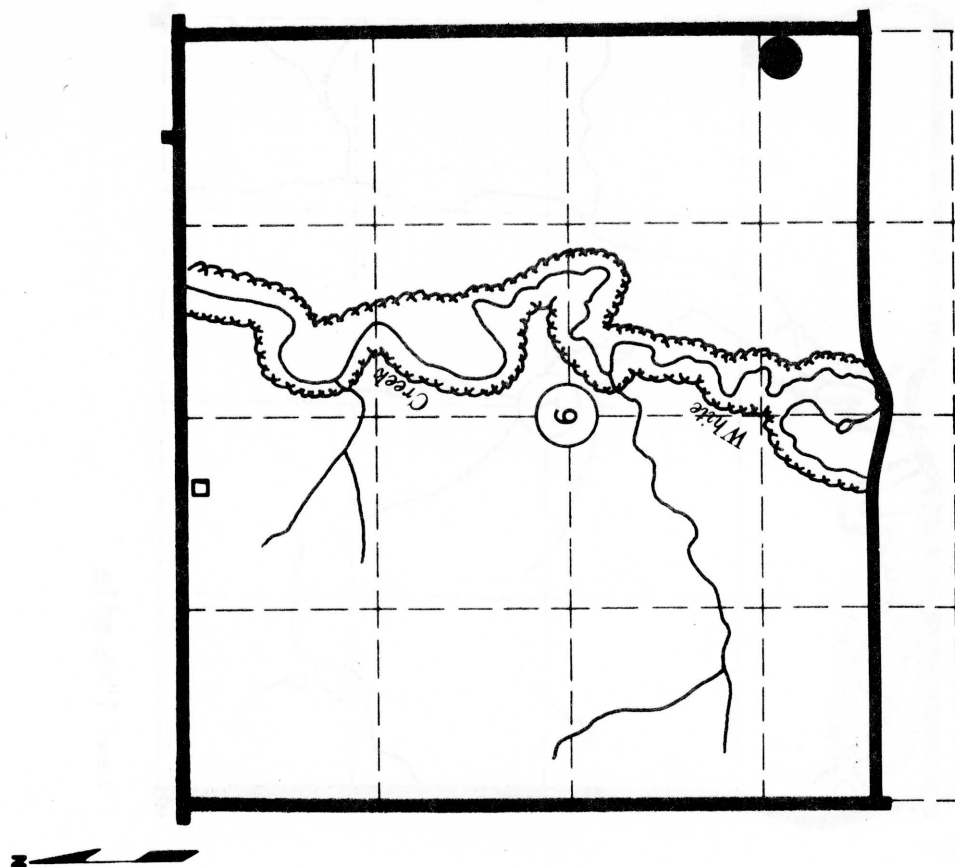
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Aborption | Soundness |
|-----------|-----------|
|           |           |

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



Scale:  $1'' = \frac{1}{4}$  mile

$$\frac{\text{LS}+37}{\text{Kg}}$$

Site No. \_\_\_\_\_ Date \_\_\_\_\_ June, 1977

Material \_\_\_\_\_ Limestone \_\_\_\_\_ Cloud \_\_\_\_\_

Location \_\_\_\_\_ NE  $\frac{1}{4}$ , NE  $\frac{1}{4}$  \_\_\_\_\_ Sec. \_\_\_\_\_ 7 \_\_\_\_\_ Twp. \_\_\_\_\_ 6S \_\_\_\_\_ Range \_\_\_\_\_ 4W \_\_\_\_\_

Owner \_\_\_\_\_ Mary McIntosh \_\_\_\_\_ 422 W. 8th \_\_\_\_\_ Concordia, Kansas \_\_\_\_\_ address \_\_\_\_\_

Mature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ accessibility \_\_\_\_\_ Good \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ I \_\_\_\_\_

Status of Site \_\_\_\_\_ Open Materials Site: Not Sampled \_\_\_\_\_

[illegible]

Cretaceous  
Greenhorn Limestone Formation, Pfeifer Shale Member

Material Similar To \_\_\_\_\_

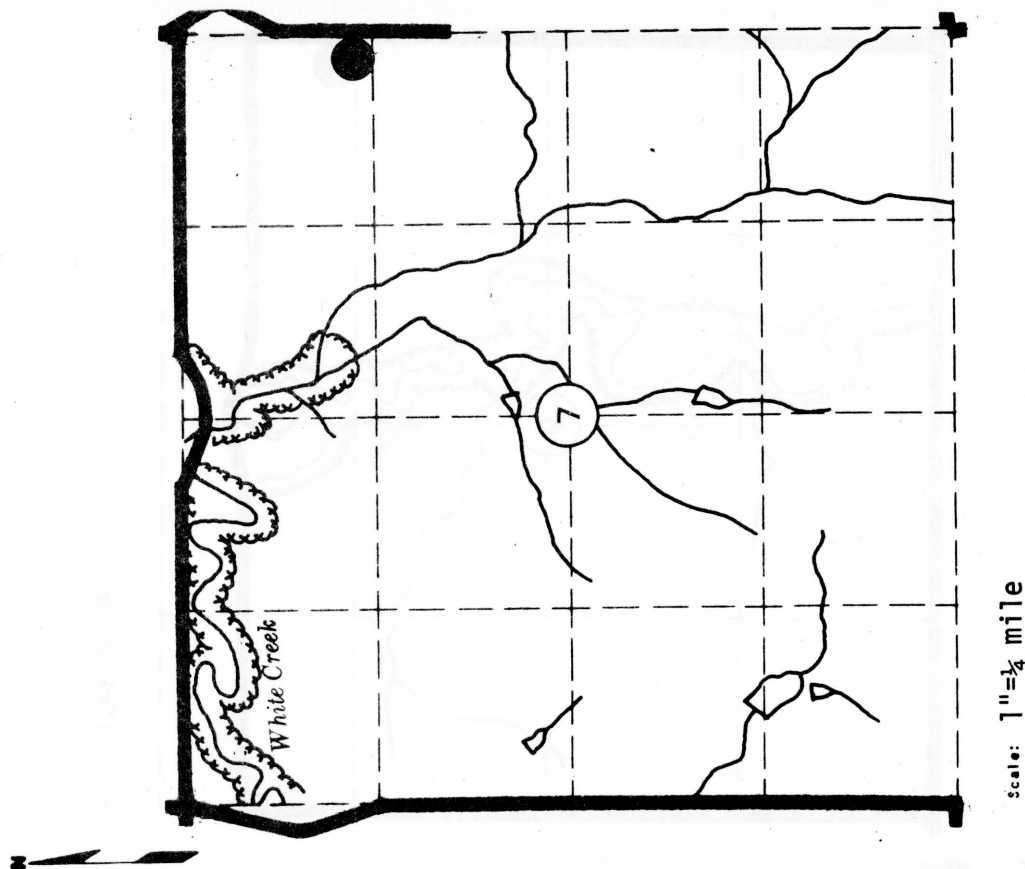
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



scale:  $1'' = \frac{1}{4}$  mile

$$\frac{LS+32}{kg}$$

Site No. \_\_\_\_\_ Kg \_\_\_\_\_ Date \_\_\_\_\_ June, 1977

Material \_\_\_\_\_ Limestone \_\_\_\_\_ County \_\_\_\_\_ Cloud \_\_\_\_\_

Location \_\_\_\_\_ NW $\frac{1}{4}$  \_\_\_\_\_ Sec. \_\_\_\_\_ 1 \_\_\_\_\_ Twp. \_\_\_\_\_ 5S \_\_\_\_\_ Range \_\_\_\_\_ 4W \_\_\_\_\_

Owner \_\_\_\_\_ Ernest Lagasse \_\_\_\_\_ Route #3 \_\_\_\_\_ Concordia, KS \_\_\_\_\_ address \_\_\_\_\_

Mature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ Accessibility \_\_\_\_\_ Good \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ II \_\_\_\_\_

Status of Site \_\_\_\_\_ Open Materials Site; Not Sampled \_\_\_\_\_

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

**Geological Age** Cretaceous

**Geological Source** Greenhorn Limestone Formation, Pfeifer Shale Formation

Material Similar To \_\_\_\_\_

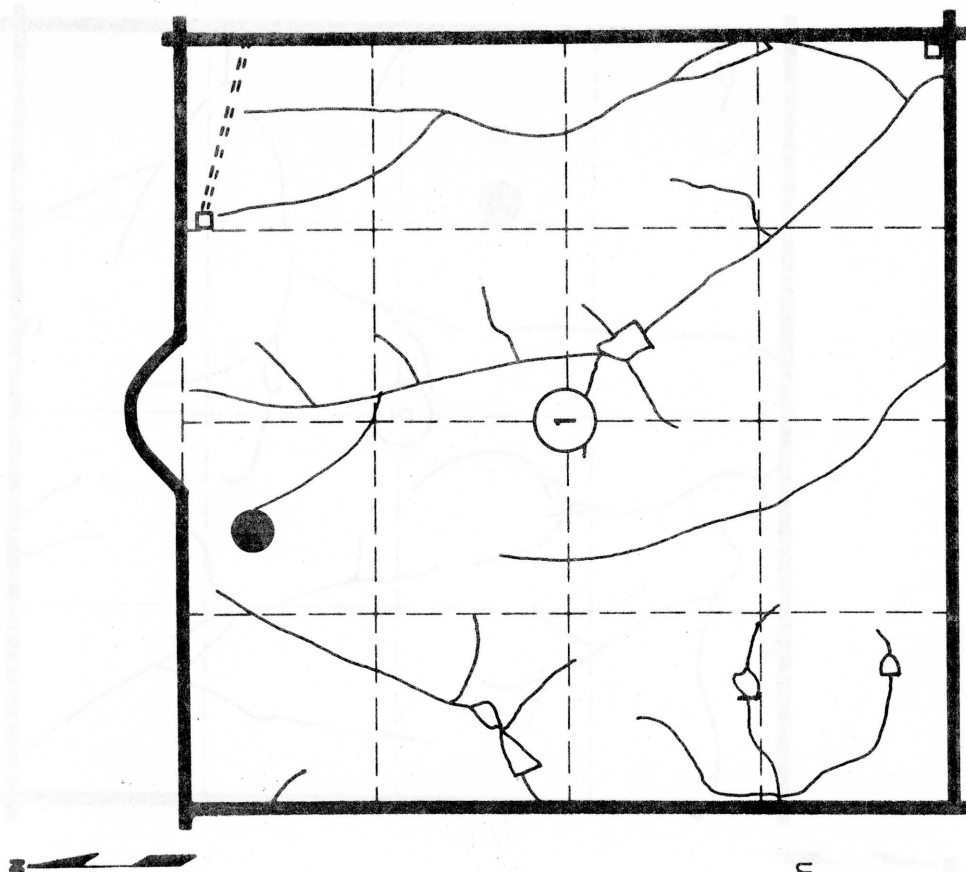
Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Absorption | Soundness |
|------------|-----------|
| 100        | 100       |
| 90         | 90        |
| 80         | 80        |
| 70         | 70        |
| 60         | 60        |
| 50         | 50        |
| 40         | 40        |
| 30         | 30        |
| 20         | 20        |
| 10         | 10        |
| 0          | 0         |

[illegible]

Remarks



scale: 1" =  $\frac{1}{4}$  mile

## LS+33

Site No. \_\_\_\_\_ Date \_\_\_\_\_ June, 1977  
Kg  
Material \_\_\_\_\_ Limestone \_\_\_\_\_ County \_\_\_\_\_ Cloud \_\_\_\_\_  
Location \_\_\_\_\_ NE $\frac{1}{4}$  \_\_\_\_\_ Sec. \_\_\_\_\_ 2 \_\_\_\_\_ Twp. \_\_\_\_\_ 5S \_\_\_\_\_ Range \_\_\_\_\_ 3W \_\_\_\_\_  
Owner \_\_\_\_\_ Eldon R. Trost \_\_\_\_\_ Route 2 \_\_\_\_\_ Belleville, Kansas \_\_\_\_\_ address \_\_\_\_\_  
Nature of Deposit \_\_\_\_\_ Dry \_\_\_\_\_ Accessibility \_\_\_\_\_ Good \_\_\_\_\_ Site Located on Plate \_\_\_\_\_ II \_\_\_\_\_  
Status of Site \_\_\_\_\_ Open Materials Site; Not Sampled \_\_\_\_\_

[illegible]

## CORRELATION DATA

Cretaceous  
Greenhorn Limestone Formation, Pfeifer Shale Member

Material Similar To \_\_\_\_\_

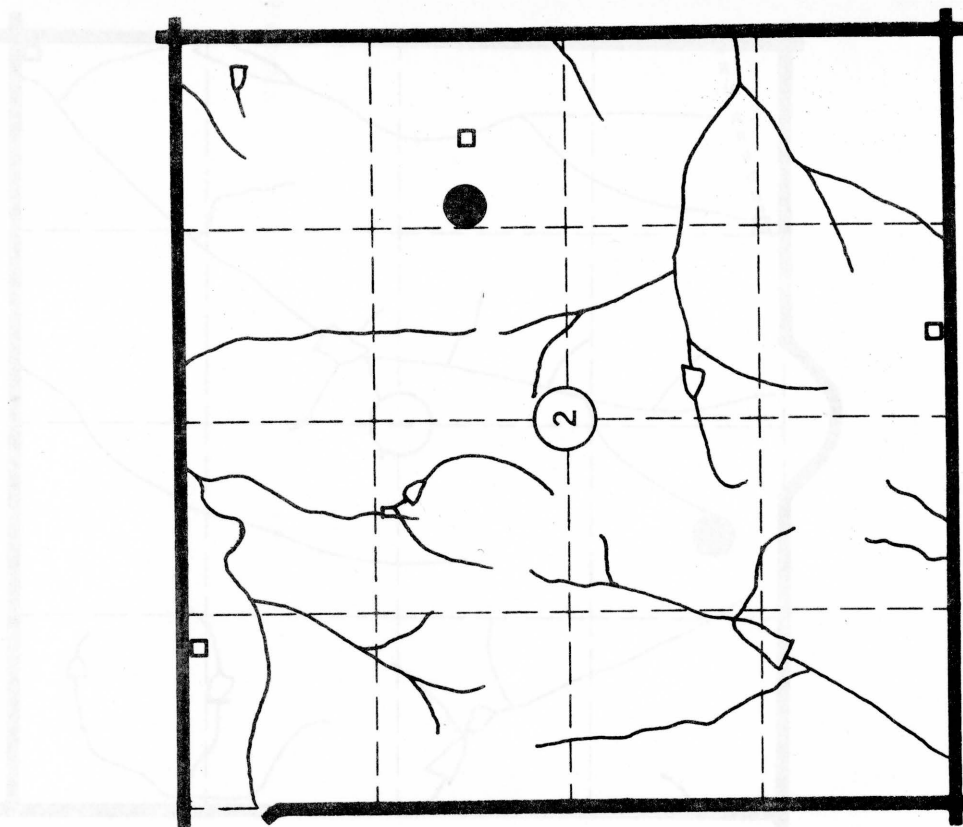
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

[illegible]

Remarks \_\_\_\_\_



scale: 1" =  $\frac{1}{4}$  mile





$$\frac{SG+35}{Qa1}$$

Site No. Qa1 Date June, 1977

Material Sand and Gravel County Cloud

Location NW $\frac{1}{4}$  Sec. 25 Twp. 5S Range 3W

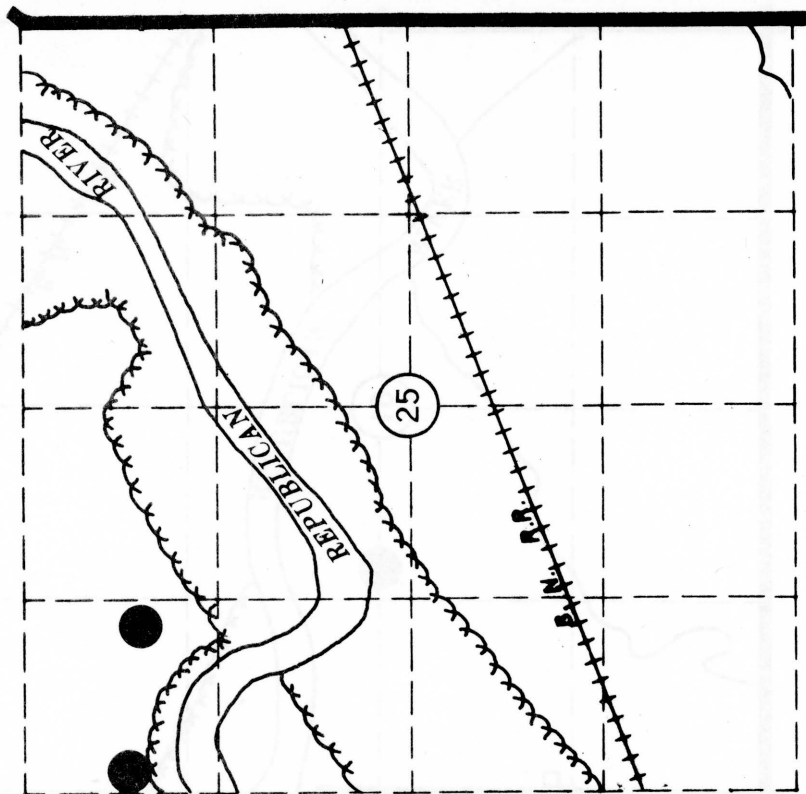
Owner Irene Lashier 218 E. 8th Concordia, KS  
name address

Nature of Deposit Wet Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 \_\_\_\_\_  
 Remarks \_\_\_\_\_



scale:  $1'' = \frac{1}{4}$  mile

SG+36  
Qa1

Site No. \_\_\_\_\_ Date June, 1977

Material Sand and Gravel County Cloud

Location NW<sub>4</sub> Sec. 25 Twp. 5S Range 3W

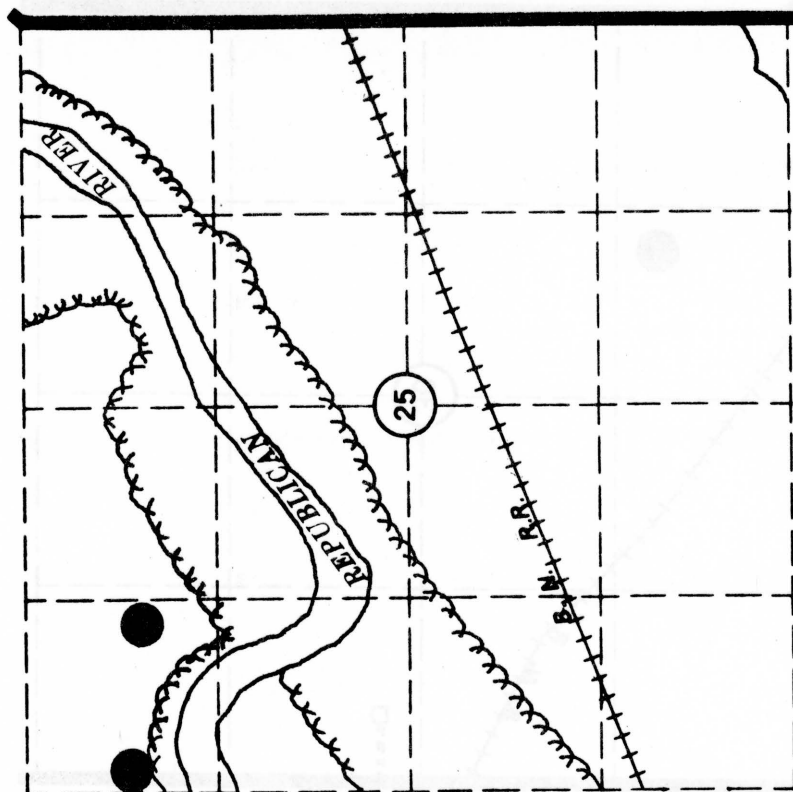
Owner H. JENS CARR Route 2 Concordia, Kansas  
name address

Nature of Deposit Wet Accessibility Good Site located on plate II

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Alluvium  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_

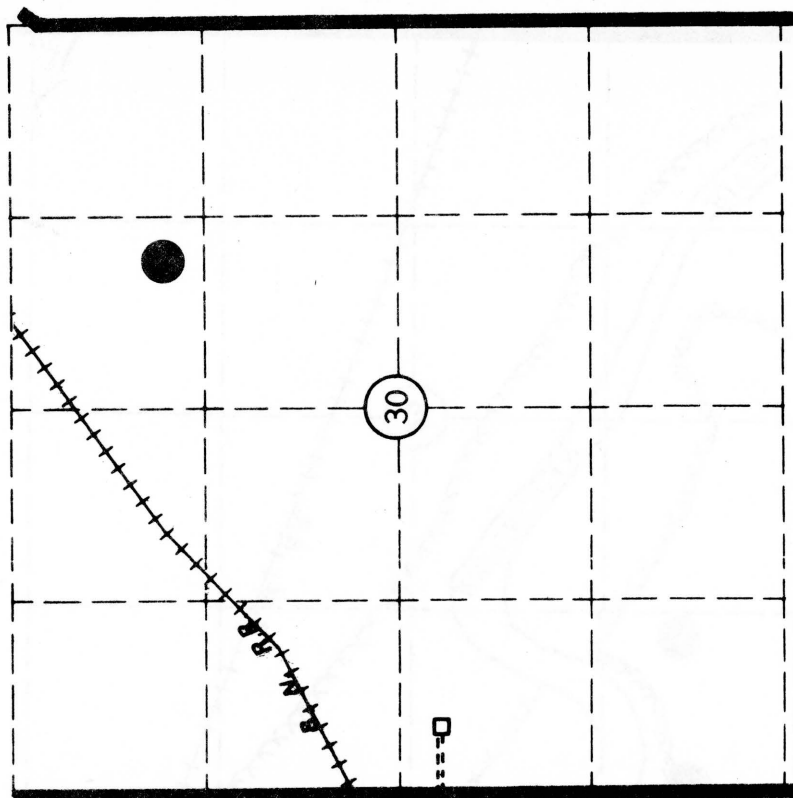


scale:  $1'' = \frac{1}{4}$  mile

SG+37 \_\_\_\_\_  
Qa1 \_\_\_\_\_  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Sand and Gravel County \_\_\_\_\_ Cloud \_\_\_\_\_  
 Location NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Sec. 30 Twp. 5S Range 2W  
 Owner \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Nature of Deposit Wet Accessibility Good Site Located on Plate II  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Quaternary \_\_\_\_\_  
 Geological Age \_\_\_\_\_  
 Alluvium \_\_\_\_\_  
 Geological Source \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 \_\_\_\_\_  
 Remarks \_\_\_\_\_



scale: 1" =  $\frac{1}{4}$  mile

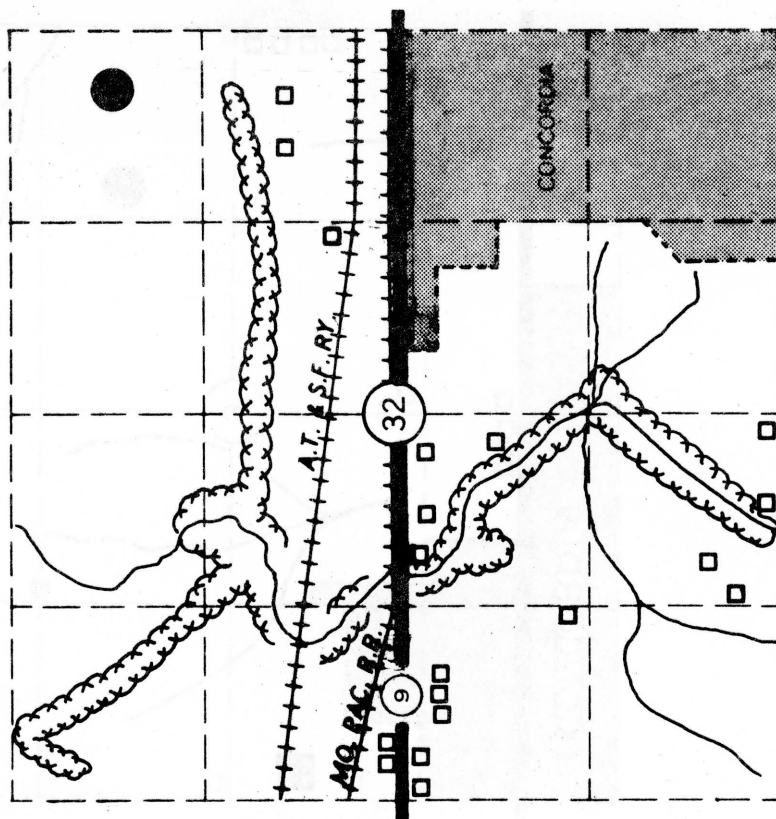
## SG+38

**EXPLCATION DATA**

[illegible]

### CORRELATION DATA

Geological Age Quaternary  
 Geological Source Alluvium  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  mile

## Si+39

Site No. Q1 Date June, 1977

Material Silt County Cloud

Location SE  $\frac{1}{4}$  Sec. 3 Twp. 6S Range 3W

Owner Emil Neander Route # 3 Concordia, Kansas  
address

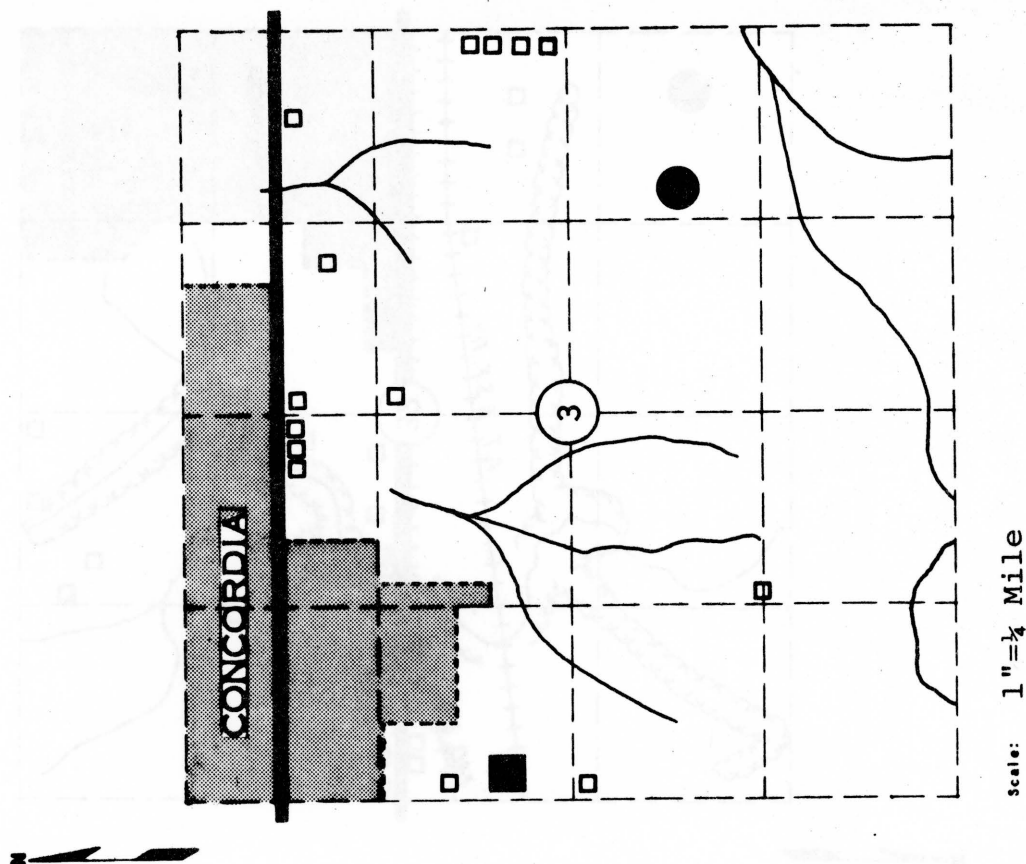
Nature of Deposit Dry Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

[illegible]

### CORRELATION DATA

Geological Age Quaternary  
Geological Source Loess  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale:  $1" = \frac{1}{4}$  Mile

$$\frac{C1+40}{Kd}$$

Site No. Kd Date June, 1977

Material Clay County Cloud

Location NW $\frac{1}{4}$  Sec. 12 Twp. 6S Range 3W

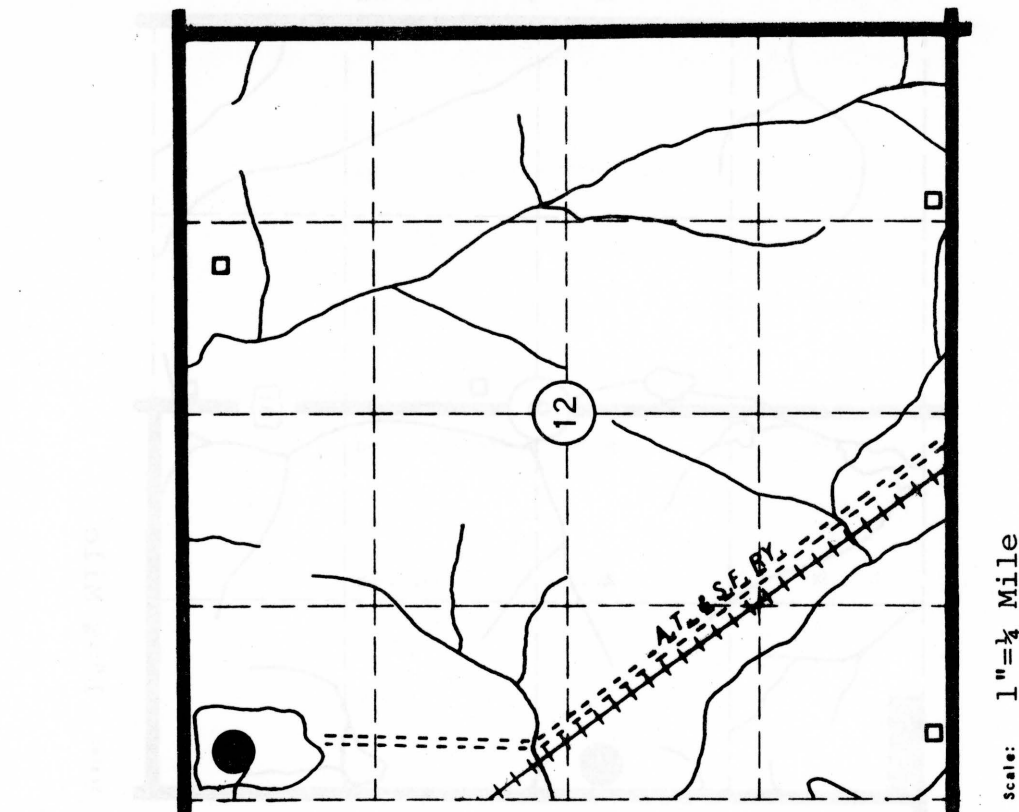
Owner General Finance, Inc. Box 369 Concordia, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
\_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile

Ls+41  
Kg  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County \_\_\_\_\_  
 Location NW $\frac{1}{4}$  Sec. 9 Twp. 6S Range 3W  
 Owner Charles H. Bossler Box 293 Concordia, KS  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate II  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

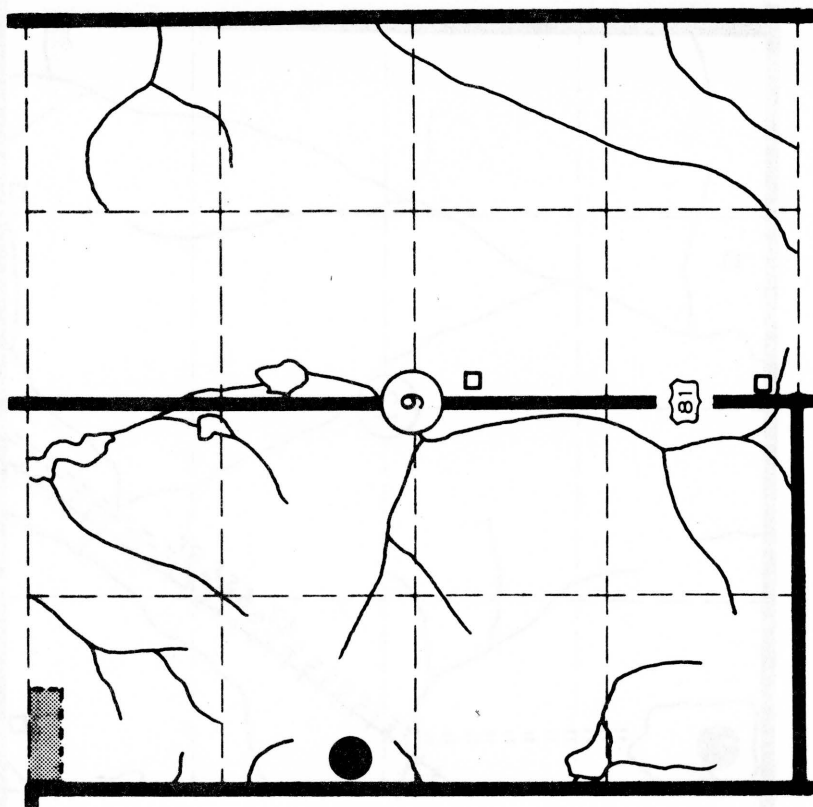
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile



Kg

Site No. \_\_\_\_\_ Date \_\_\_\_\_  
Kg \_\_\_\_\_  
June, 1977

Material Limestone County Cloud

Location SE  $\frac{1}{4}$  Sec. 7 Twp. 6S Range 3W

Donor B. Malmquest 303 W. 15th Concordia, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate II

| State of Site | Open Materials Site; Not Sampled |
|---------------|----------------------------------|
|               |                                  |

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

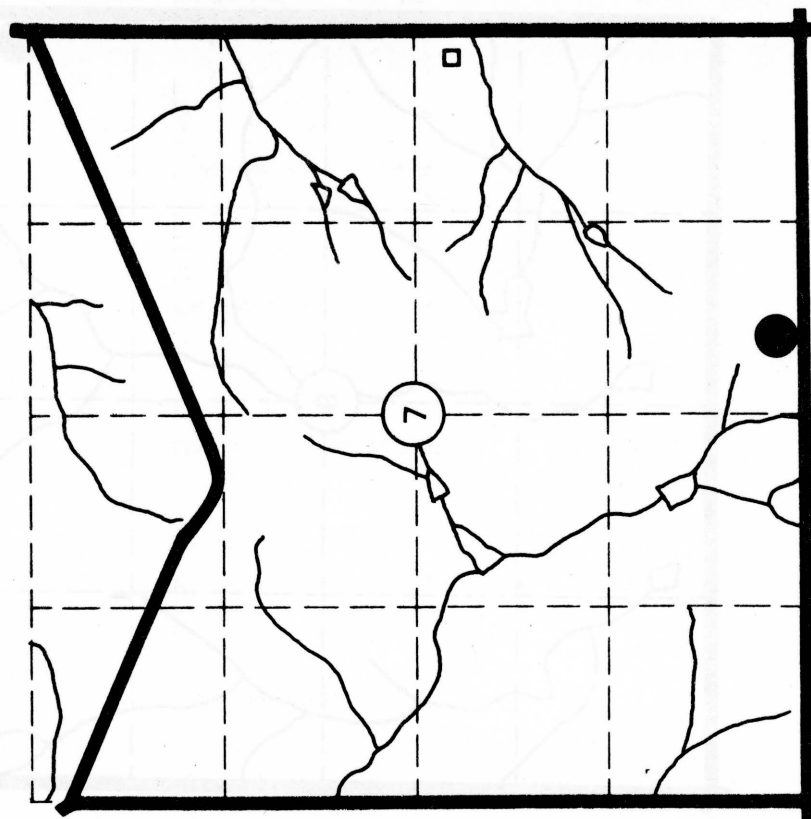
Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Year \_\_\_\_\_

| Aborption | Soundness |
|-----------|-----------|
|           |           |

[illegible]

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

Ls+43  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 8 Twp. 6S Range 3W

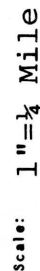
Owner Thurston Route #1 Jamestown, Kansas address

Nature of Deposit Dry Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## F5+44

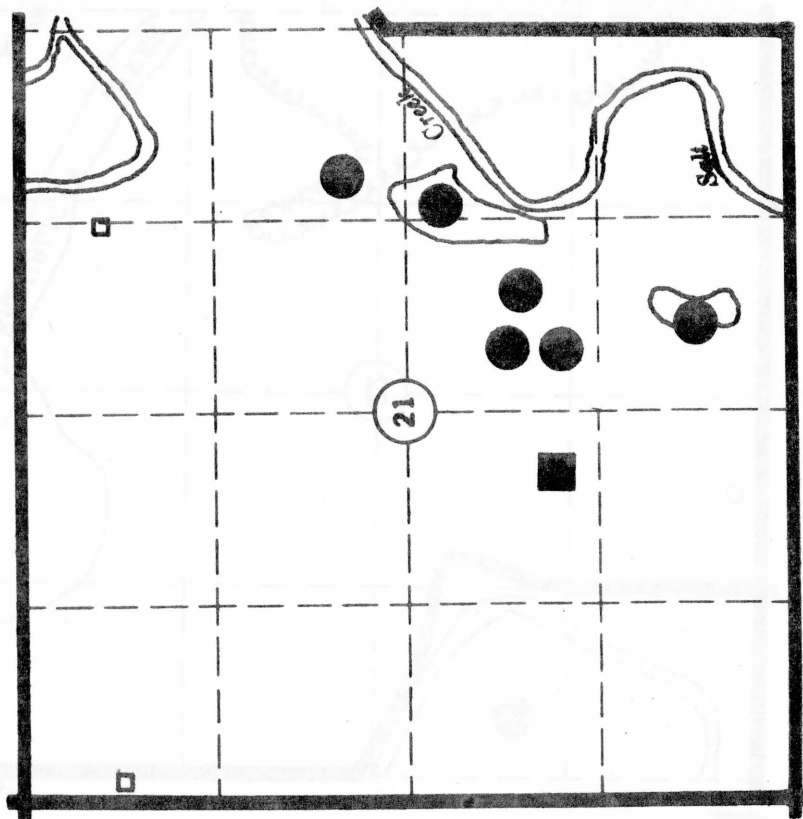
Site No. Qds Date June, 1977  
Material Fine Sand County Cloud  
Location NE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W  
Owner H. Carlgran 532 W. 5th Concordia, Kansas  
Name  
Nature of Deposit Dry Accessibility Good Site Located on Plate III  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_

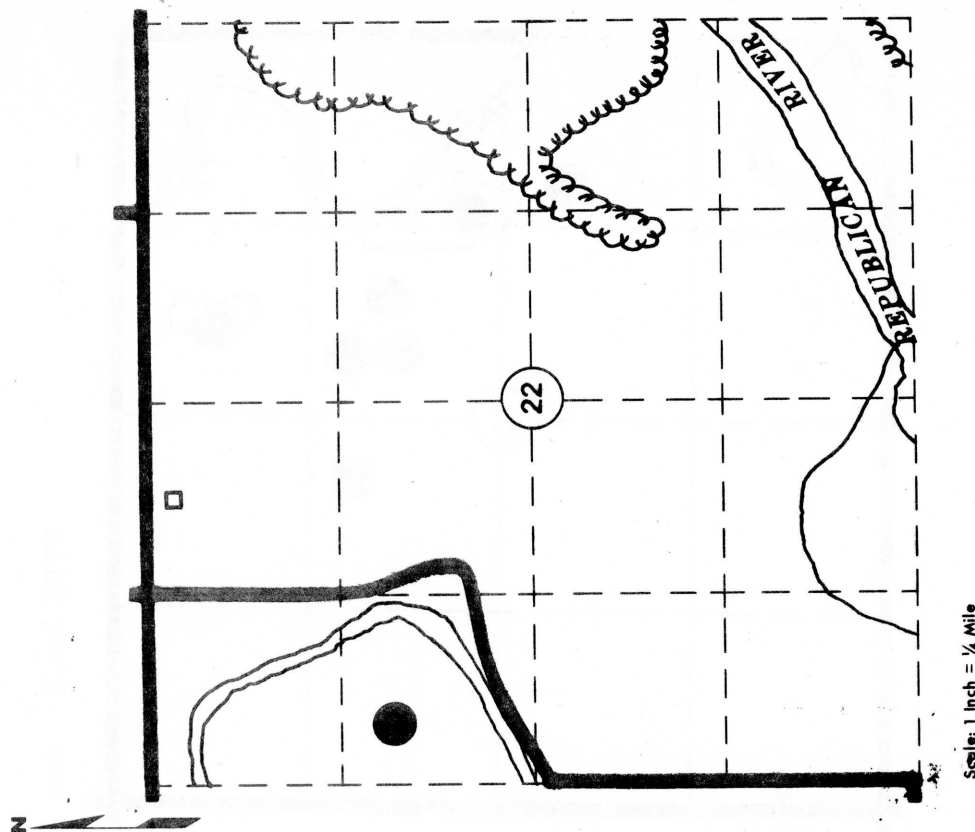


Scale: 1" =  $\frac{1}{4}$  Mile

Fs+45  
Qds  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Fine Sand County \_\_\_\_\_  
 Location W $\frac{1}{2}$ , NW $\frac{1}{4}$  Sec. 22 Twp. 5S Range 2W  
 Owner G.E. Smith 616 W. 7th Concordia, Kansas  
 name  
 Nature of Deposit Dry Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



**Scale: 1 inch = 1/4 Mile**

**MATERIAL SITE DATA FORM**

Fs+46  
Site No. Ods Date June, 1977  
Material Fine Sand County Cloud  
Location NW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W  
Owner H. Carlgran 532 W. 5th Concordia, Kansas  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate III  
Status of Site Open Materials Site, Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_

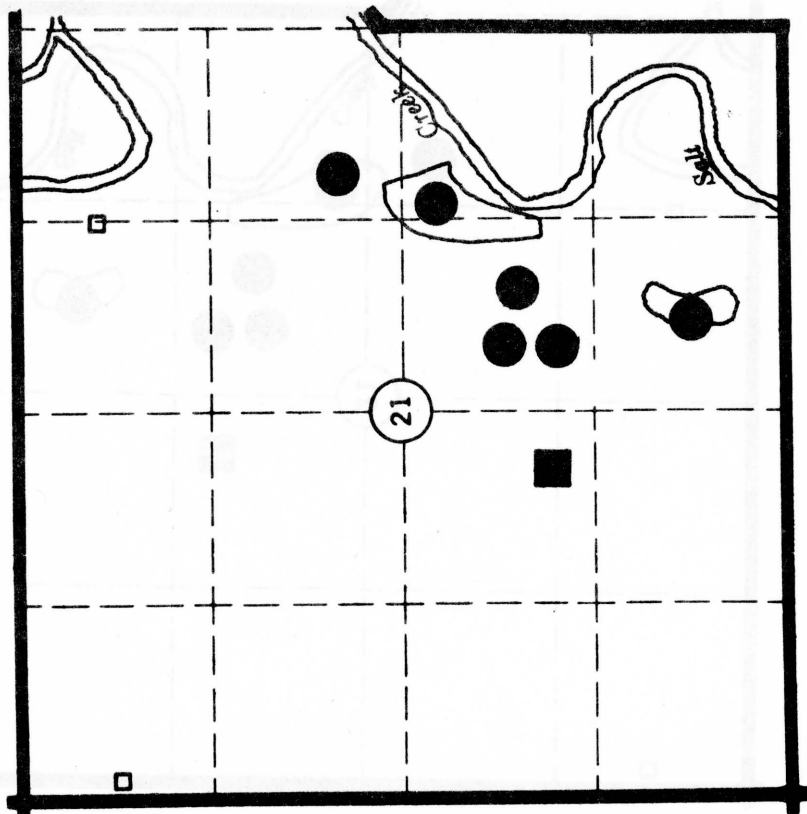
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## FS+47

Site No. Qds Date June, 1977  
 Material Fine Sand County Cloud  
 Location NE $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W  
 Owner Helen W. Carlgran 532 W. 5th Concordia, Kansas  
 Address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## F5+48

Site No. Qds Date June, 1977

Material Fine Sand County Cloud

Location NW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W

Owner Helen W. Carlgran 532 W.5th Concordia, Kansas  
address

Nature of Deposit Dry Accessibility Good Site located on Plate III

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Dune Sand

Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Absorption | Soundness |
|------------|-----------|
|------------|-----------|

|     | Wt. Cu. Ft. | Str. Ratio |
|-----|-------------|------------|
| 1   |             |            |
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| 4   |             |            |
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| 100 |             |            |

| Remarks |
|---------|
|         |





$$\frac{F_s + 49}{Q_{ds}}$$

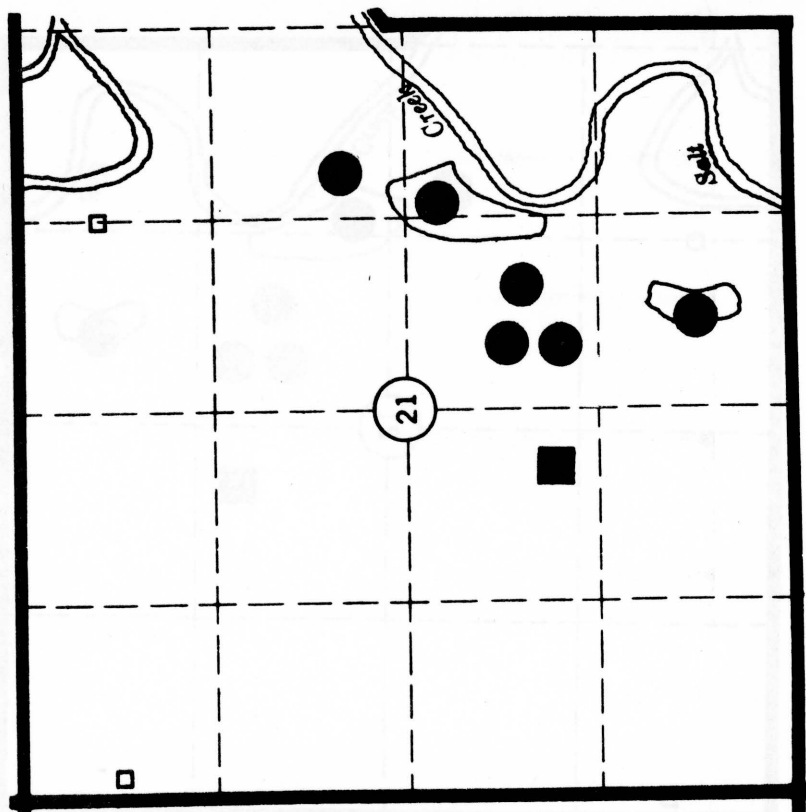
1542  
Qds \_\_\_\_\_ Date June, 1977  
Site No. \_\_\_\_\_  
Material Fine Sand County Cloud  
Location NW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W  
Owner Helen W. Carlgran 532 W. 5th Concordia, Kansas  
name address  
Nature of Deposit Dry accessibility Good Site Located on Plate III  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## Fs+50

Site No. Qds Date June, 1977

Material Fine Sand County Cloud

Location SW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 21 Twp. 5S Range 2W

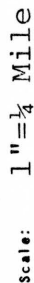
Owner Walter A. McCahan Box 583 Concordia, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate III

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Dune Sand  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## FS+51

Site No. Qds Date June, 1977  
 Material Dune Sand County cloud  
 Location NW $\frac{1}{4}$  Sec. 27 Twp. 5S Range 1W  
 Owner F.L. Odette, Et.ux. name address Clyde, Kansas  
 Nature of Deposit Wet Accessibility Good Site Located on Plate III  
 Status of Site Open Materials Site, Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary

Dune Sand

Material Similar To \_\_\_\_\_

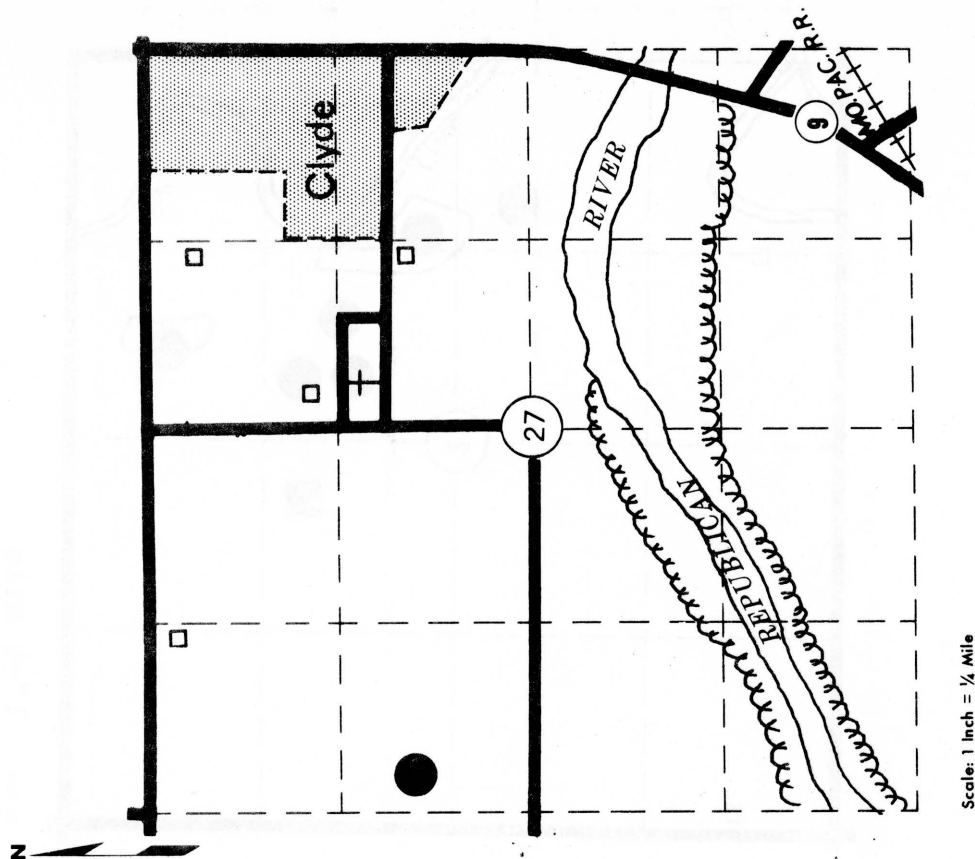
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



## Ls+52

Site No.                      Kg                      Date June, 1977

Material Limestone County Cloud

Location NE  $\frac{1}{4}$  Sec. 16 Twp. 6S Range 4W

Owner Herman A. Cook name                      address Concordia, Kansas

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous  
**Geological Age**

Greenhorn Limestone Formation-Pfeifer Shale  
Member  
**Geological Source**

Material Similar To \_\_\_\_\_

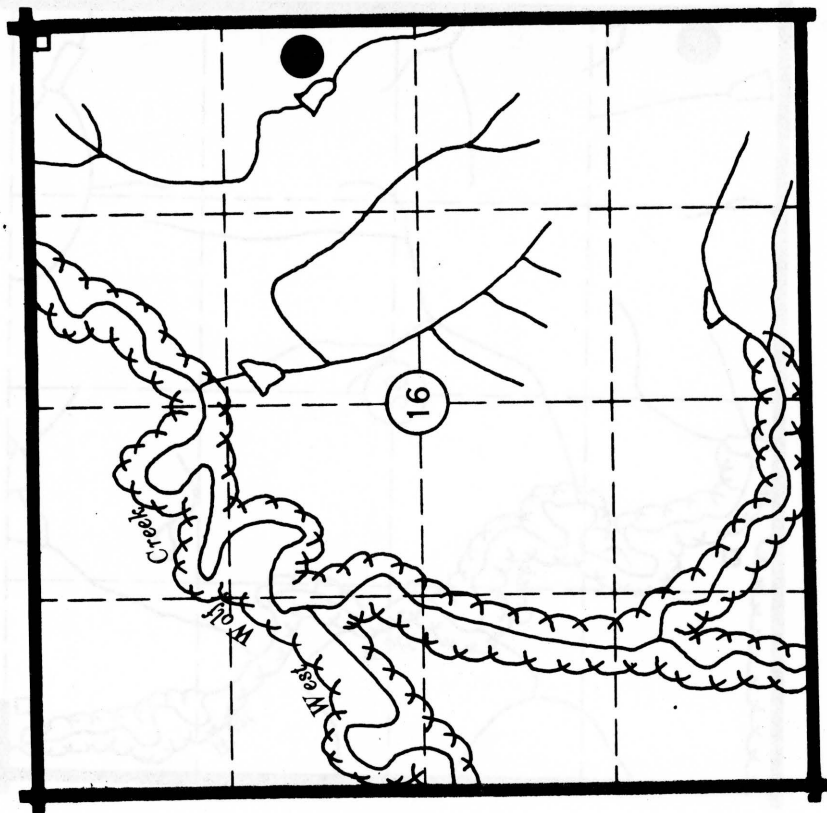
Specific Gravity (sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



**Scale:**  $1'' = \frac{1}{4}$  Mile

## Ls+53

Site No.                      Date June, 1977  
Kg  
Material Limestone County Cloud  
Location NE $\frac{1}{4}$  Sec. 20 Twp. 6S Range 4W  
Owner W.D. Millirons Route # 1 Concordia, Kansas  
                     address  
Nature of Deposit Dry Accessibility Good Site located on Plate IV  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

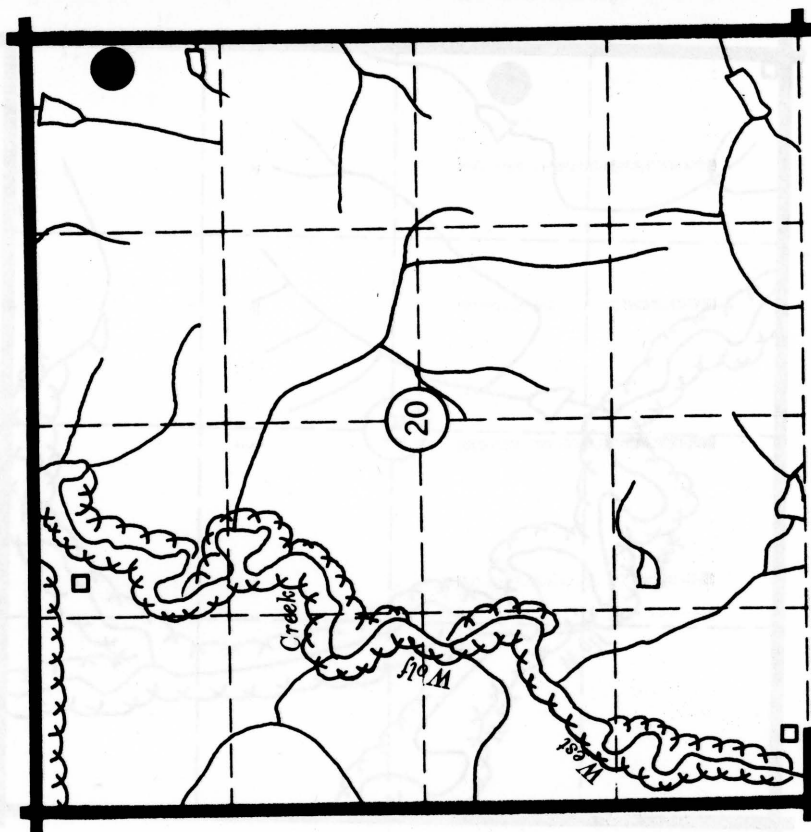
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Year \_\_\_\_\_

| Aborption | Soundness |
|-----------|-----------|
|           |           |

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



Scale:  $1" = \frac{1}{4}$  Mile

$$\frac{\text{Ls}+54}{\text{Kg}}$$

                     Kg                      Date June, 1977  
                     Limestone                      County Cloud  
                     Location SW<sup>1</sup>/<sub>4</sub> Sec. 22 Twp. 6S Range 4W  
                     Owner G.L. Hooper Route #1 Concordia, Kansas  
                     name                                           address                       
                     Nature of Deposit Dry                      Accessibility Good                      Site Located on Plate IV  
                     Status of Site Open Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

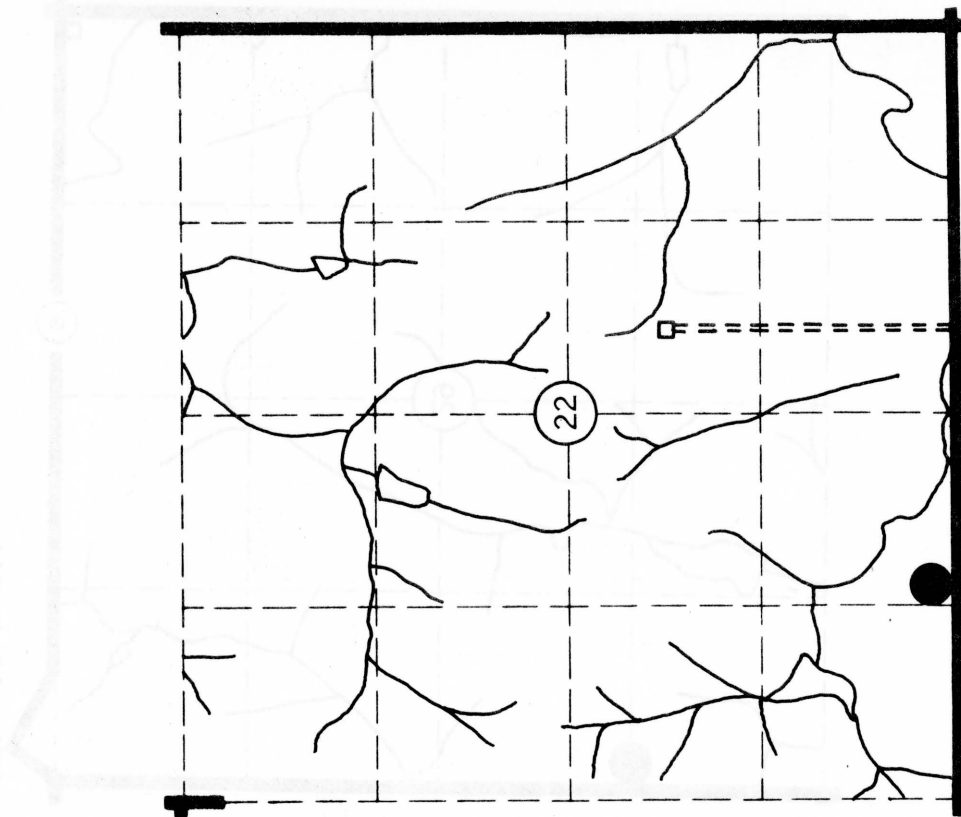
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

|     | Wt. Cu.Ft. | Str. Ratio |
|-----|------------|------------|
| 1   | 100        | 1.00       |
| 2   | 200        | 1.00       |
| 3   | 300        | 1.00       |
| 4   | 400        | 1.00       |
| 5   | 500        | 1.00       |
| 6   | 600        | 1.00       |
| 7   | 700        | 1.00       |
| 8   | 800        | 1.00       |
| 9   | 900        | 1.00       |
| 10  | 1000       | 1.00       |
| 11  | 1100       | 1.00       |
| 12  | 1200       | 1.00       |
| 13  | 1300       | 1.00       |
| 14  | 1400       | 1.00       |
| 15  | 1500       | 1.00       |
| 16  | 1600       | 1.00       |
| 17  | 1700       | 1.00       |
| 18  | 1800       | 1.00       |
| 19  | 1900       | 1.00       |
| 20  | 2000       | 1.00       |
| 21  | 2100       | 1.00       |
| 22  | 2200       | 1.00       |
| 23  | 2300       | 1.00       |
| 24  | 2400       | 1.00       |
| 25  | 2500       | 1.00       |
| 26  | 2600       | 1.00       |
| 27  | 2700       | 1.00       |
| 28  | 2800       | 1.00       |
| 29  | 2900       | 1.00       |
| 30  | 3000       | 1.00       |
| 31  | 3100       | 1.00       |
| 32  | 3200       | 1.00       |
| 33  | 3300       | 1.00       |
| 34  | 3400       | 1.00       |
| 35  | 3500       | 1.00       |
| 36  | 3600       | 1.00       |
| 37  | 3700       | 1.00       |
| 38  | 3800       | 1.00       |
| 39  | 3900       | 1.00       |
| 40  | 4000       | 1.00       |
| 41  | 4100       | 1.00       |
| 42  | 4200       | 1.00       |
| 43  | 4300       | 1.00       |
| 44  | 4400       | 1.00       |
| 45  | 4500       | 1.00       |
| 46  | 4600       | 1.00       |
| 47  | 4700       | 1.00       |
| 48  | 4800       | 1.00       |
| 49  | 4900       | 1.00       |
| 50  | 5000       | 1.00       |
| 51  | 5100       | 1.00       |
| 52  | 5200       | 1.00       |
| 53  | 5300       | 1.00       |
| 54  | 5400       | 1.00       |
| 55  | 5500       | 1.00       |
| 56  | 5600       | 1.00       |
| 57  | 5700       | 1.00       |
| 58  | 5800       | 1.00       |
| 59  | 5900       | 1.00       |
| 60  | 6000       | 1.00       |
| 61  | 6100       | 1.00       |
| 62  | 6200       | 1.00       |
| 63  | 6300       | 1.00       |
| 64  | 6400       | 1.00       |
| 65  | 6500       | 1.00       |
| 66  | 6600       | 1.00       |
| 67  | 6700       | 1.00       |
| 68  | 6800       | 1.00       |
| 69  | 6900       | 1.00       |
| 70  | 7000       | 1.00       |
| 71  | 7100       | 1.00       |
| 72  | 7200       | 1.00       |
| 73  | 7300       | 1.00       |
| 74  | 7400       | 1.00       |
| 75  | 7500       | 1.00       |
| 76  | 7600       | 1.00       |
| 77  | 7700       | 1.00       |
| 78  | 7800       | 1.00       |
| 79  | 7900       | 1.00       |
| 80  | 8000       | 1.00       |
| 81  | 8100       | 1.00       |
| 82  | 8200       | 1.00       |
| 83  | 8300       | 1.00       |
| 84  | 8400       | 1.00       |
| 85  | 8500       | 1.00       |
| 86  | 8600       | 1.00       |
| 87  | 8700       | 1.00       |
| 88  | 8800       | 1.00       |
| 89  | 8900       | 1.00       |
| 90  | 9000       | 1.00       |
| 91  | 9100       | 1.00       |
| 92  | 9200       | 1.00       |
| 93  | 9300       | 1.00       |
| 94  | 9400       | 1.00       |
| 95  | 9500       | 1.00       |
| 96  | 9600       | 1.00       |
| 97  | 9700       | 1.00       |
| 98  | 9800       | 1.00       |
| 99  | 9900       | 1.00       |
| 100 | 10000      | 1.00       |

Remarks



Scale: 1"= $\frac{1}{4}$  Mile

$$\frac{\text{Ls}+55}{\text{Kg}}$$

Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County Cloud  
 Location NW<sup>1</sup>/<sub>4</sub> Sec. 29 Twp. 6S Range 4W  
 Owner Lawrence Miller Route #2 Jamestown, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV  
 Status of Site Open Materials Site; Not Sampled

### EXPLCRATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

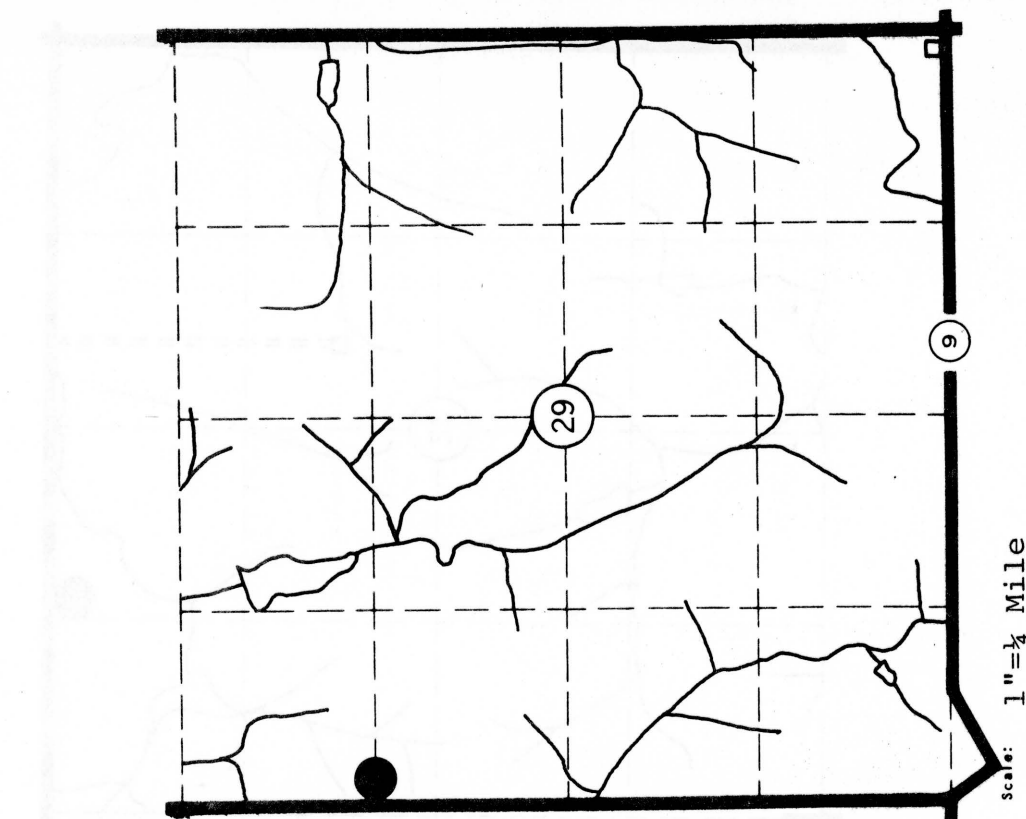
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Absorption | Soundness |
|------------|-----------|
| 0.000      | 0.000     |
| 0.001      | 0.001     |
| 0.002      | 0.002     |
| 0.003      | 0.003     |
| 0.004      | 0.004     |
| 0.005      | 0.005     |
| 0.006      | 0.006     |
| 0.007      | 0.007     |
| 0.008      | 0.008     |
| 0.009      | 0.009     |
| 0.010      | 0.010     |
| 0.011      | 0.011     |
| 0.012      | 0.012     |
| 0.013      | 0.013     |
| 0.014      | 0.014     |
| 0.015      | 0.015     |
| 0.016      | 0.016     |
| 0.017      | 0.017     |
| 0.018      | 0.018     |
| 0.019      | 0.019     |
| 0.020      | 0.020     |
| 0.021      | 0.021     |
| 0.022      | 0.022     |
| 0.023      | 0.023     |
| 0.024      | 0.024     |
| 0.025      | 0.025     |
| 0.026      | 0.026     |
| 0.027      | 0.027     |
| 0.028      | 0.028     |
| 0.029      | 0.029     |
| 0.030      | 0.030     |
| 0.031      | 0.031     |
| 0.032      | 0.032     |
| 0.033      | 0.033     |
| 0.034      | 0.034     |
| 0.035      | 0.035     |
| 0.036      | 0.036     |
| 0.037      | 0.037     |
| 0.038      | 0.038     |
| 0.039      | 0.039     |
| 0.040      | 0.040     |
| 0.041      | 0.041     |
| 0.042      | 0.042     |
| 0.043      | 0.043     |
| 0.044      | 0.044     |
| 0.045      | 0.045     |
| 0.046      | 0.046     |
| 0.047      | 0.047     |
| 0.048      | 0.048     |
| 0.049      | 0.049     |
| 0.050      | 0.050     |
| 0.051      | 0.051     |
| 0.052      | 0.052     |
| 0.053      | 0.053     |
| 0.054      | 0.054     |
| 0.055      | 0.055     |
| 0.056      | 0.056     |
| 0.057      | 0.057     |
| 0.058      | 0.058     |
| 0.059      | 0.059     |
| 0.060      | 0.060     |
| 0.061      | 0.061     |
| 0.062      | 0.062     |
| 0.063      | 0.063     |
| 0.064      | 0.064     |
| 0.065      | 0.065     |
| 0.066      | 0.066     |
| 0.067      | 0.067     |
| 0.068      | 0.068     |
| 0.069      | 0.069     |
| 0.070      | 0.070     |
| 0.071      | 0.071     |
| 0.072      | 0.072     |
| 0.073      | 0.073     |
| 0.074      | 0.074     |
| 0.075      | 0.075     |
| 0.076      | 0.076     |
| 0.077      | 0.077     |
| 0.078      | 0.078     |
| 0.079      | 0.079     |
| 0.080      | 0.080     |
| 0.081      | 0.081     |
| 0.082      | 0.082     |
| 0.083      | 0.083     |
| 0.084      | 0.084     |
| 0.085      | 0.085     |
| 0.086      | 0.086     |
| 0.087      | 0.087     |
| 0.088      | 0.088     |
| 0.089      | 0.089     |
| 0.090      | 0.090     |
| 0.091      | 0.091     |
| 0.092      | 0.092     |
| 0.093      | 0.093     |
| 0.094      | 0.094     |
| 0.095      | 0.095     |
| 0.096      | 0.096     |
| 0.097      | 0.097     |
| 0.098      | 0.098     |
| 0.099      | 0.099     |
| 0.100      | 0.100     |

wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks





Ls+56  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 30 Twp. 6S Range 4W

Owner James H. Odette Jamestown, Kansas address

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous

Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

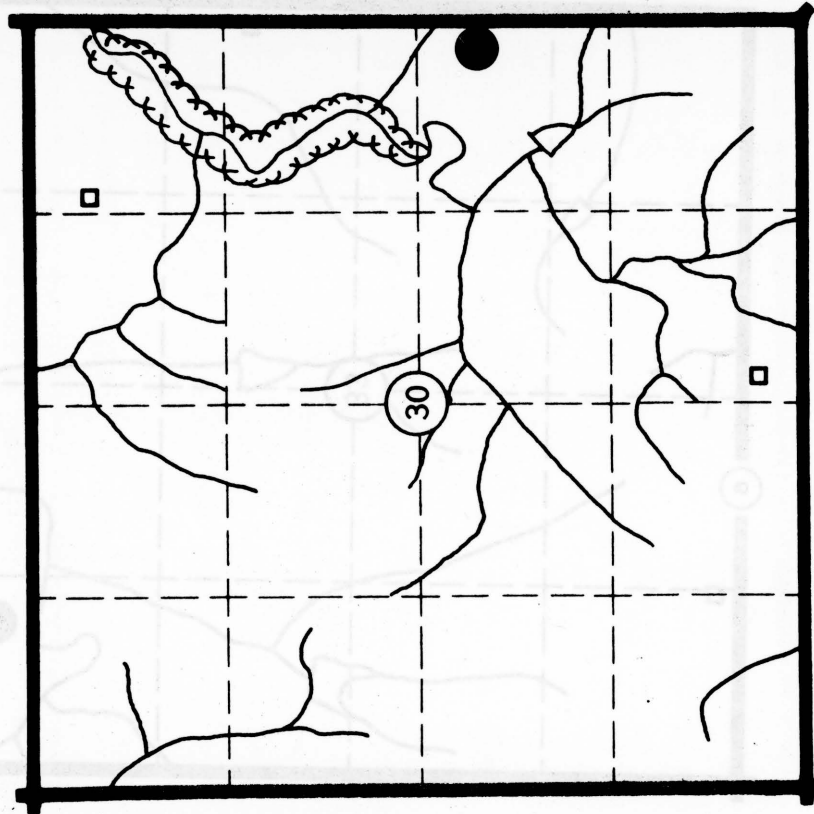
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

Site No.     Kg     Date June, 1977

Material Limestone County Cloud

Location SW $\frac{1}{4}$  Sec. 33 Twp. 6S Range 4W

Owner Lawrence Blochlinger 1023 Willow Concordia, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

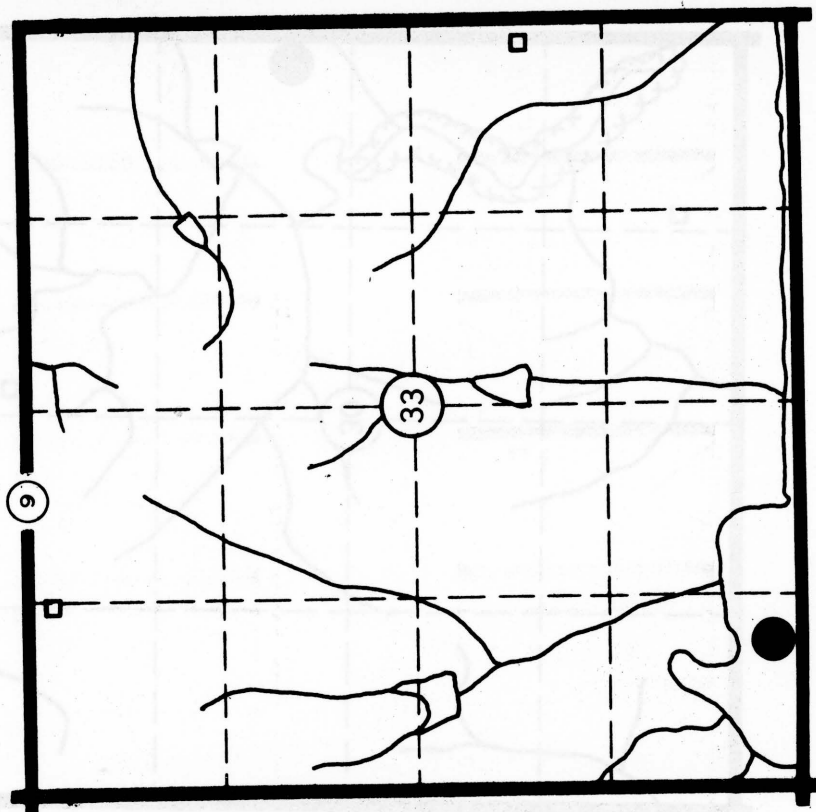
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Year \_\_\_\_\_

Assertion \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

$$\frac{\text{Ls}+58}{\text{Kg}}$$

Site No.      Kg      Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 6 Twp. 7S Range 5W

Owner William W. Zimmer <sup>name</sup> Simpson, Kansas <sup>address</sup>

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

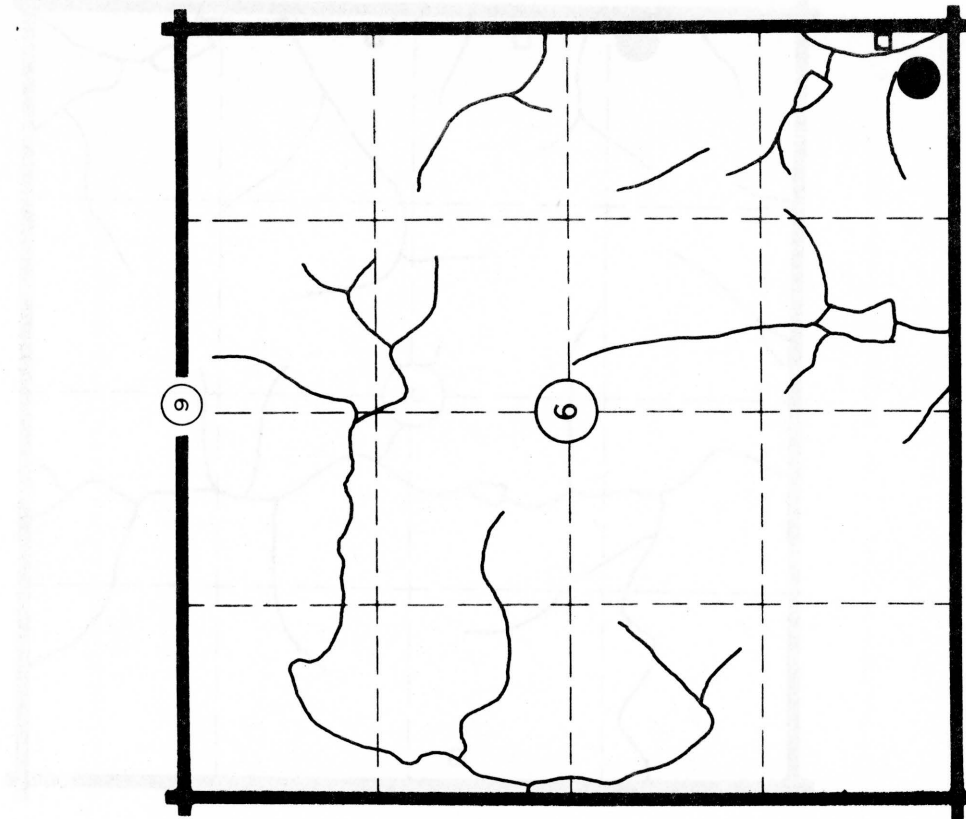
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Year \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

Ls+59  
Kg

Site No.                      Date June, 1977

Material Limestone County Cloud

Location NE $\frac{1}{4}$  Sec. 9 Twp. 7S Range 4W

Owner Earl E. Mossberg et. ux. Route #3 Concordia, KS

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

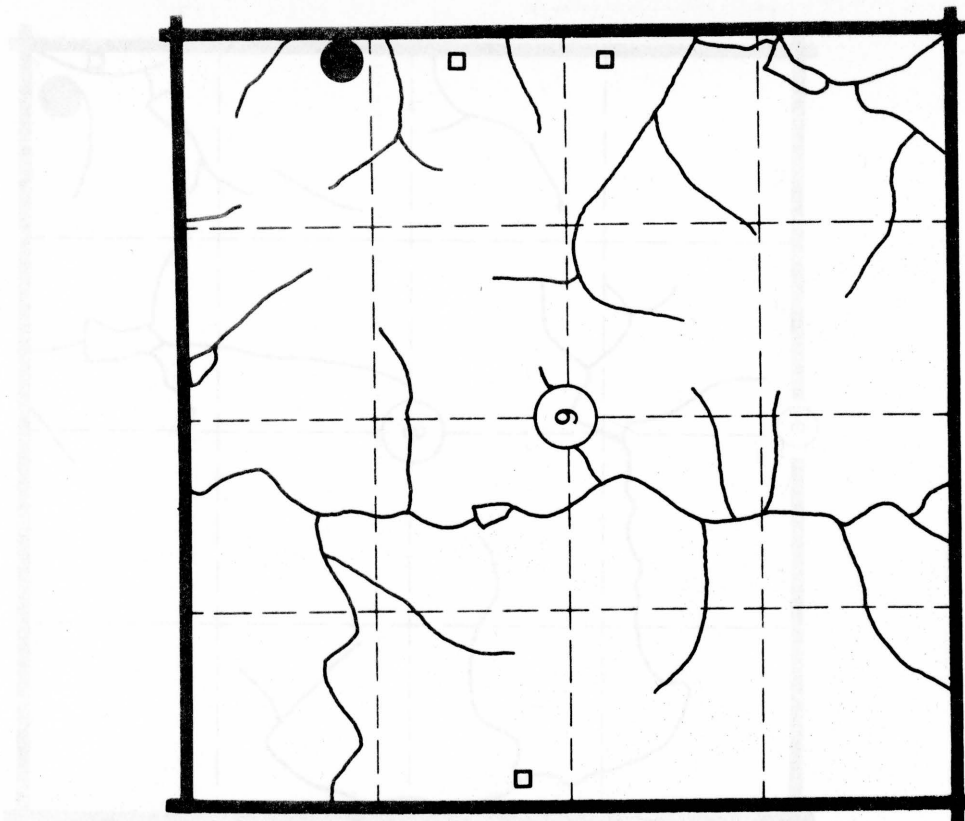
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

# MATERIAL SITE DATA FORM

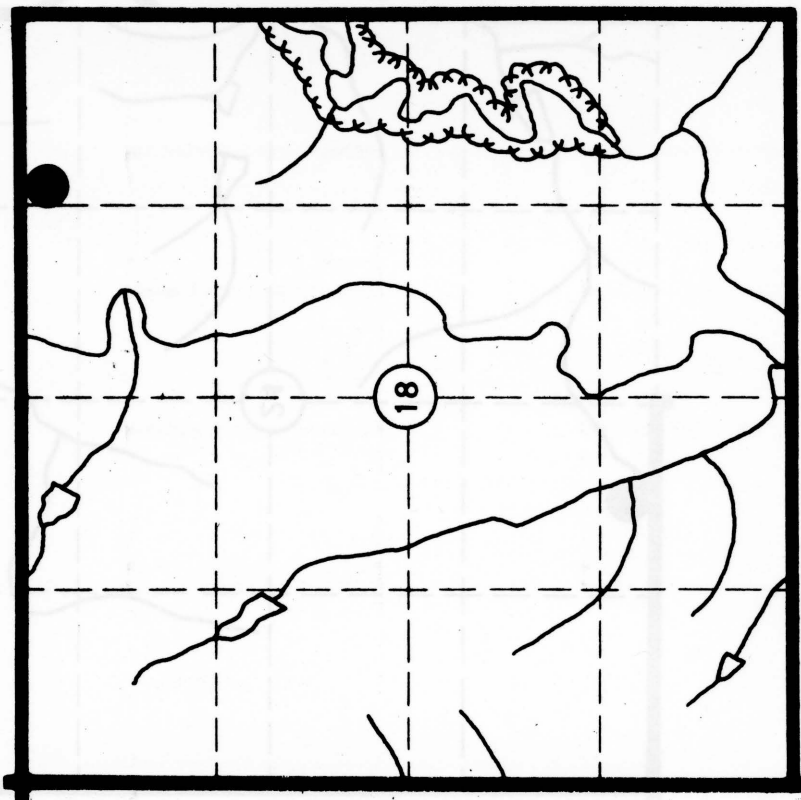
Site No.        Date June, 1977  
 Material Limestone County Cloud  
 Location NE 1/4 Sec. 18 Twp. 7S Range 5W  
 Owner Dorothy McClintock Name Simpson, Kansas  
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    | </ |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
 Material Similar To         
 Specific Gravity (Sat.)        (Dry)         
 Los Angeles Wear         
 Absorption        Soundness         
 Wt. Cu.Ft.        Str. Ratio         
 Remarks       



Scale: 1"=1/4 Mile

$$\frac{\text{Ls}+61}{\text{Kg}}$$

Ls+61  
Kg  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County Cloud  
 Location NW $\frac{1}{4}$  Sec. 24 Twp. 7S Range 5W  
 Owner M. Higgs et.al. Name \_\_\_\_\_ Address Simpson, Kansas  
 Nature of Deposit Dry Accessibility Good Site Located on Plate IV  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous

Geological Source Greenhorn Limestone-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

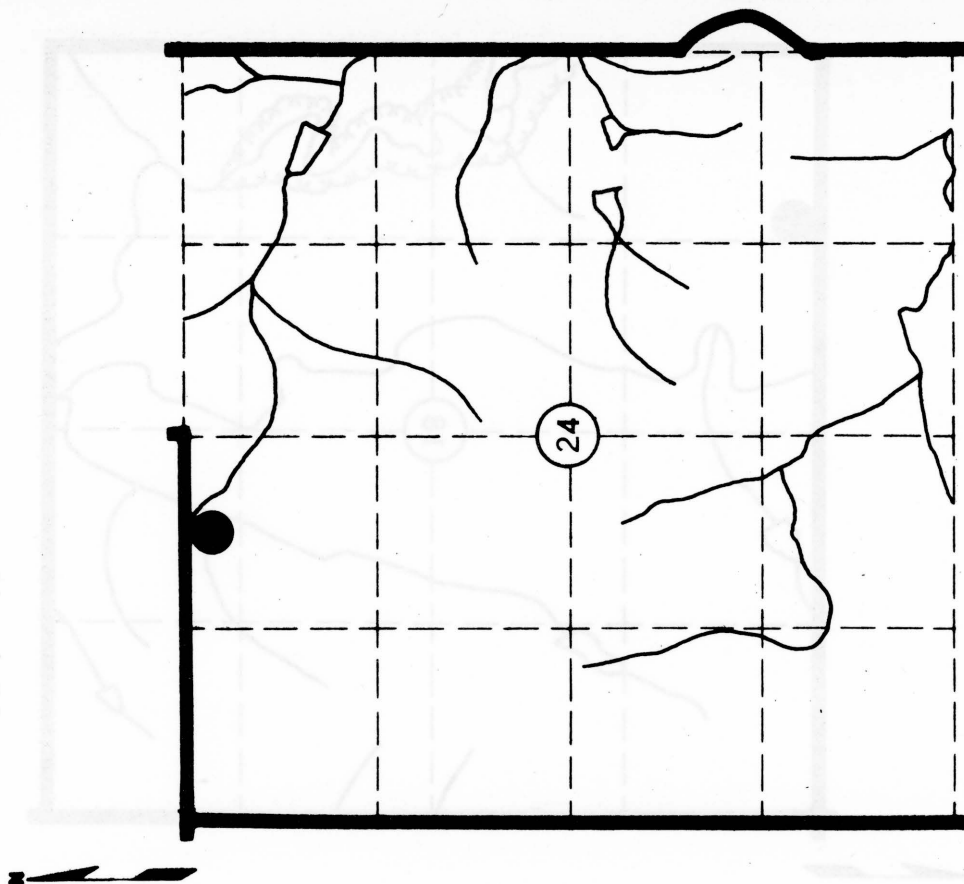
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near

| Absorption | Soundness |
|------------|-----------|
| 1          | 1         |
| 2          | 2         |
| 3          | 3         |
| 4          | 4         |
| 5          | 5         |
| 6          | 6         |
| 7          | 7         |
| 8          | 8         |
| 9          | 9         |
| 10         | 10        |
| 11         | 11        |
| 12         | 12        |
| 13         | 13        |
| 14         | 14        |
| 15         | 15        |
| 16         | 16        |
| 17         | 17        |
| 18         | 18        |
| 19         | 19        |
| 20         | 20        |
| 21         | 21        |
| 22         | 22        |
| 23         | 23        |
| 24         | 24        |
| 25         | 25        |
| 26         | 26        |
| 27         | 27        |
| 28         | 28        |
| 29         | 29        |
| 30         | 30        |
| 31         | 31        |
| 32         | 32        |
| 33         | 33        |
| 34         | 34        |
| 35         | 35        |
| 36         | 36        |
| 37         | 37        |
| 38         | 38        |
| 39         | 39        |
| 40         | 40        |
| 41         | 41        |
| 42         | 42        |
| 43         | 43        |
| 44         | 44        |
| 45         | 45        |
| 46         | 46        |
| 47         | 47        |
| 48         | 48        |
| 49         | 49        |
| 50         | 50        |
| 51         | 51        |
| 52         | 52        |
| 53         | 53        |
| 54         | 54        |
| 55         | 55        |
| 56         | 56        |
| 57         | 57        |
| 58         | 58        |
| 59         | 59        |
| 60         | 60        |
| 61         | 61        |
| 62         | 62        |
| 63         | 63        |
| 64         | 64        |
| 65         | 65        |
| 66         | 66        |
| 67         | 67        |
| 68         | 68        |
| 69         | 69        |
| 70         | 70        |
| 71         | 71        |
| 72         | 72        |
| 73         | 73        |
| 74         | 74        |
| 75         | 75        |
| 76         | 76        |
| 77         | 77        |
| 78         | 78        |
| 79         | 79        |
| 80         | 80        |
| 81         | 81        |
| 82         | 82        |
| 83         | 83        |
| 84         | 84        |
| 85         | 85        |
| 86         | 86        |
| 87         | 87        |
| 88         | 88        |
| 89         | 89        |
| 90         | 90        |
| 91         | 91        |
| 92         | 92        |
| 93         | 93        |
| 94         | 94        |
| 95         | 95        |
| 96         | 96        |
| 97         | 97        |
| 98         | 98        |
| 99         | 99        |
| 100        | 100       |

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile



$$\frac{\text{Ls}+62}{\text{Kg}}$$

Site No.                      Kg                      Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 18 Twp. 7S Range 4W

Owner John Levi Snell et.ux. Route #1 Glasco, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

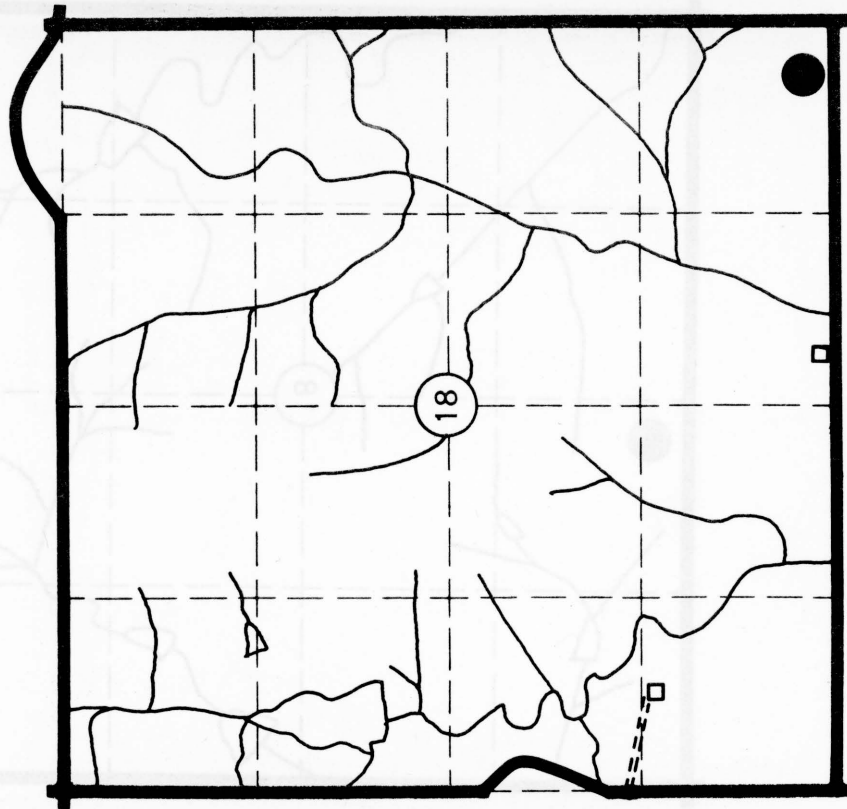
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile



Ls+63  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 18 Twp. 6S Range 3W

Owner John R. Hefner 117 E. 7th St. Concordia, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

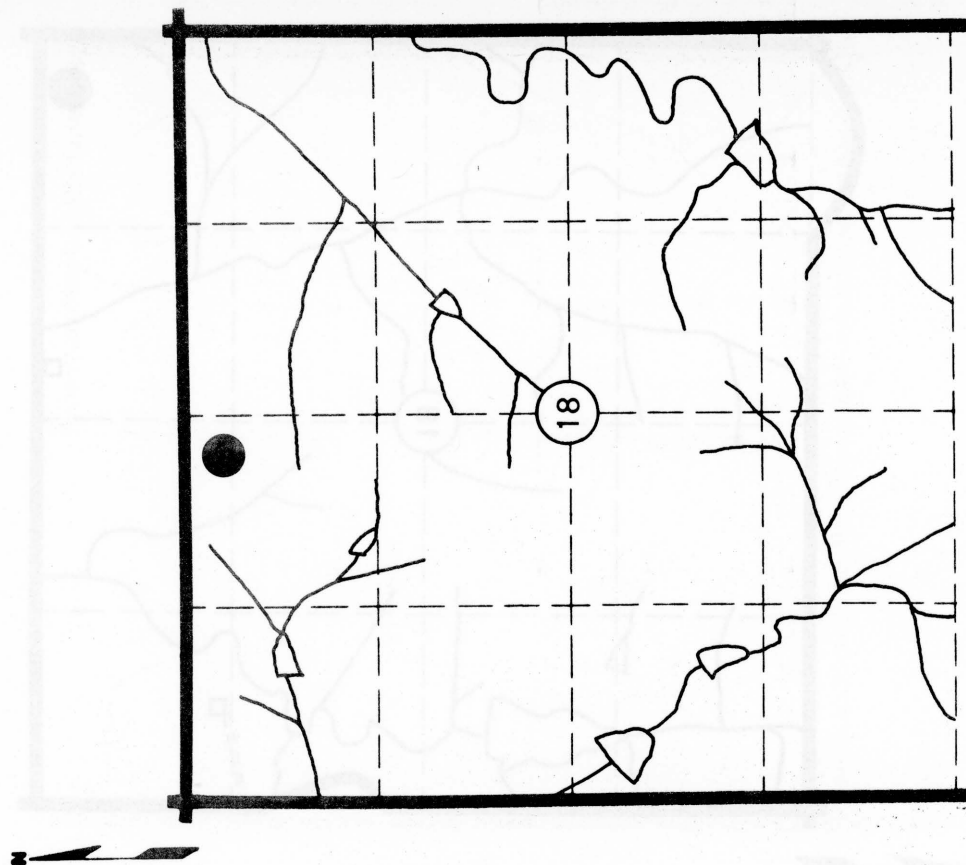
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

Scale:  $1'' = \frac{1}{4}$  Mile

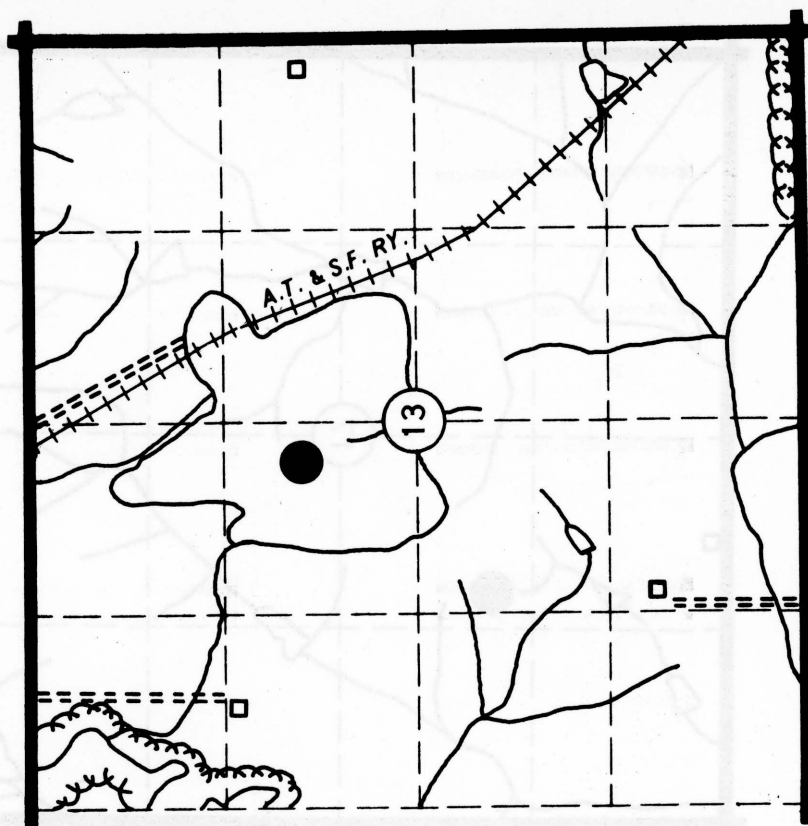
## C1+65

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

**LS+66**

Site No.            Kg            Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 24 Twp. 6S Range 3W

Owner Herman A. Cook RFD 1 Concordia, Kansas

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Cretaceous  
Geological Age  
Greenhorn Limestone Formation-Pfeifer Shale  
Geological Source Member  
Material Similar To

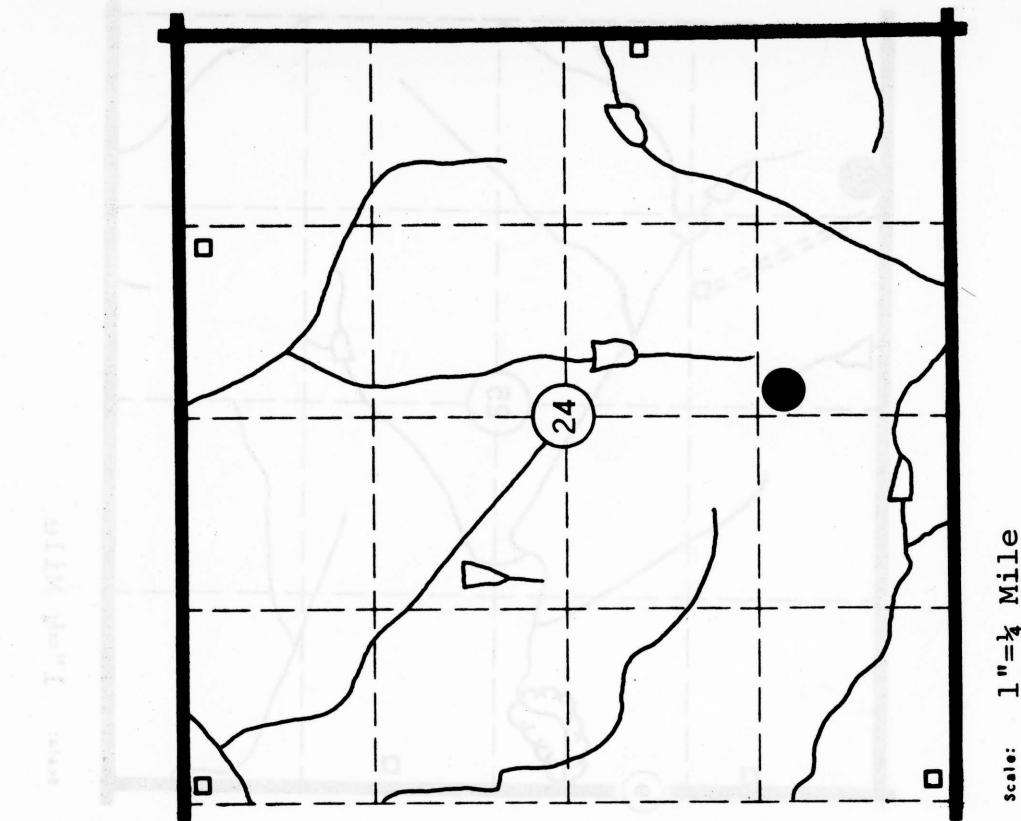
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



## Ls+67

4W

[illegible]

## Cretaceous

**Greenhorn Limestone Formation-Pfeifer Shale Member**

Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

|                   |                  |
|-------------------|------------------|
| <b>Absorption</b> | <b>Soundness</b> |
|-------------------|------------------|

| Wt. Cu. Ft. | Str. Ratio |
|-------------|------------|
|-------------|------------|

| Remarks |
|---------|
|         |





## Ls+68

Site No.            Kg            Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 29 Twp. 6S Range 3W

Owner Cloud County Concordia, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

### EXPLCATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

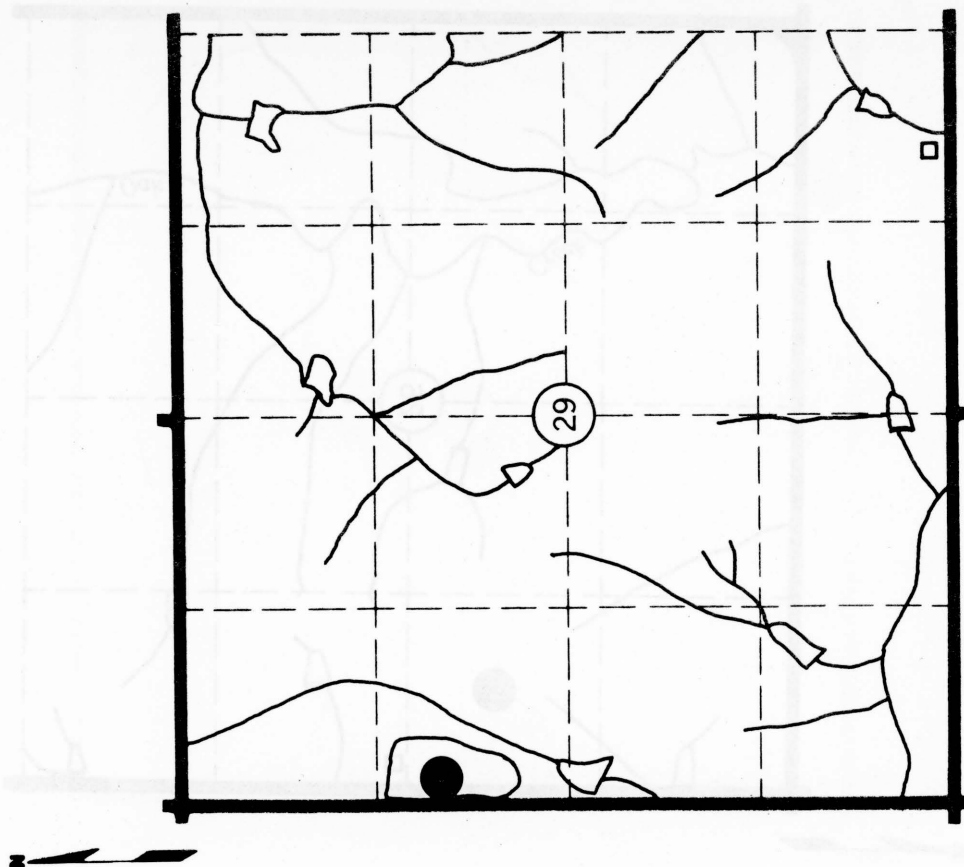
Specific Gravity (sat.) ————— (Dry) —————

Los Angeles Wear

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks



Scale: 1" =  $\frac{1}{4}$  Mile

## Ls+69



### EXPLCRATION DATA

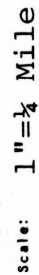
## Cretaceous

Material Similar To \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks





$$\frac{\text{Ls}+70}{\text{Kg}}$$

Site No.      Kg      Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 25 Twp. 6S Range 3W

Owner V. Deneaut 433 E. 6th Concordia, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

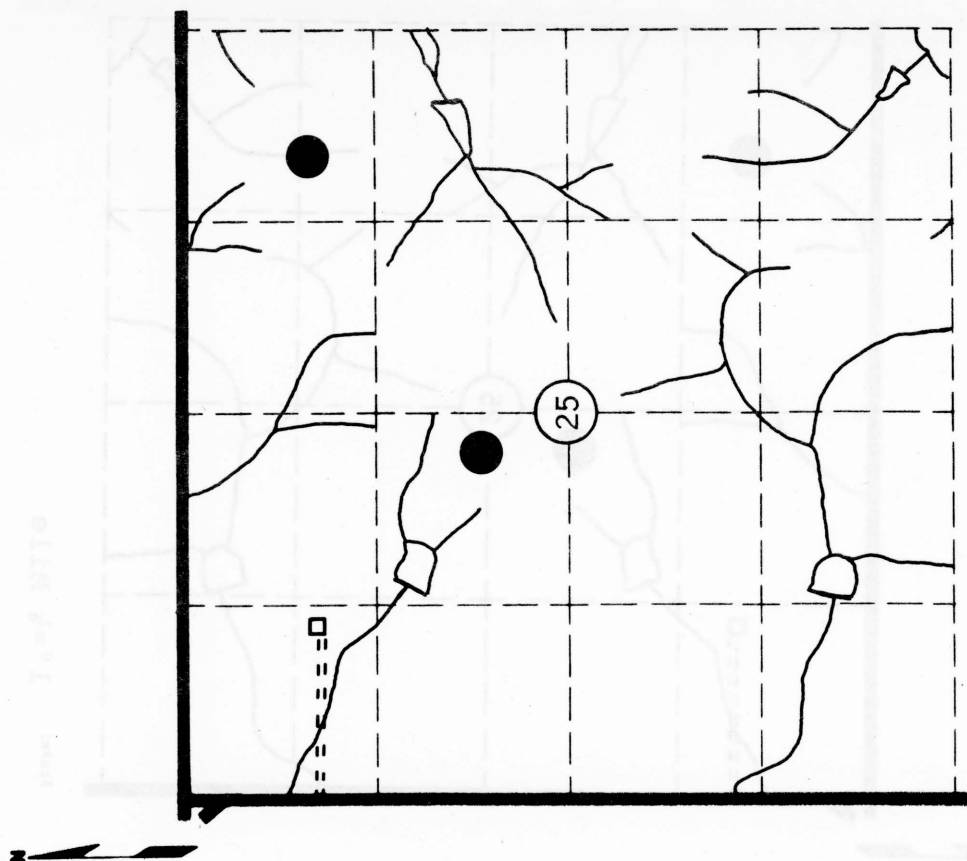
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

Site No. \_\_\_\_\_ Date June, 1977  
Material Limestone County Cloud  
Location NE $\frac{1}{4}$  Sec. 25 Twp. 6S Range 3W  
Owner Albert Trost Route #3 Concordia, Kansas  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate V  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

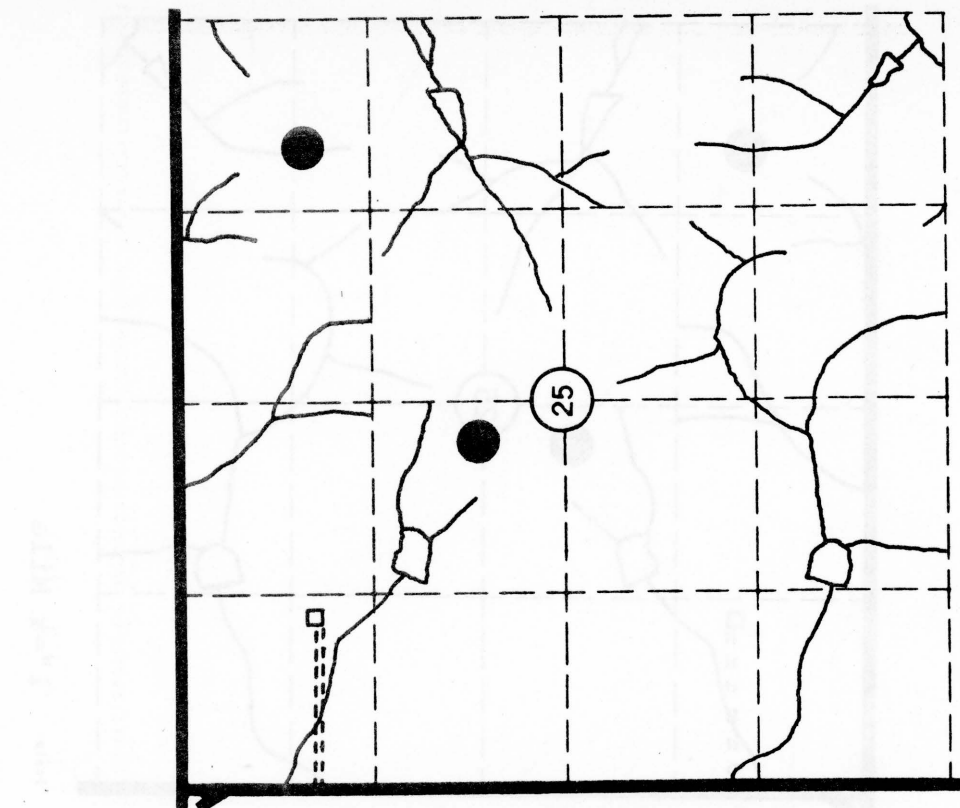
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Year \_\_\_\_\_

Assorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## Ls+72

Site No. Kg June, 1977 Date  
Material Limestone County Cloud  
Location NW $\frac{1}{4}$  Sec. 35 Twp. 6S Range 3W  
Owner Melvin Trost name  
Nature of Deposit Dry Accessibility Good Site Located on Plate V  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

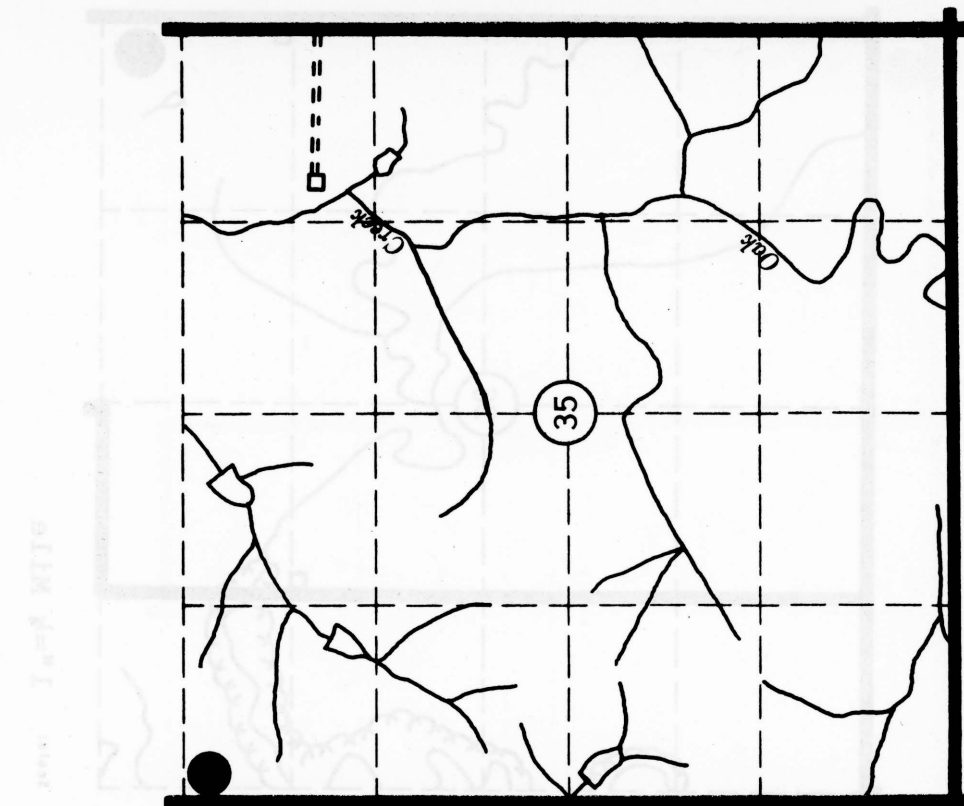
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Net. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile

Ls+73  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 36 Twp. 6S Range 4W

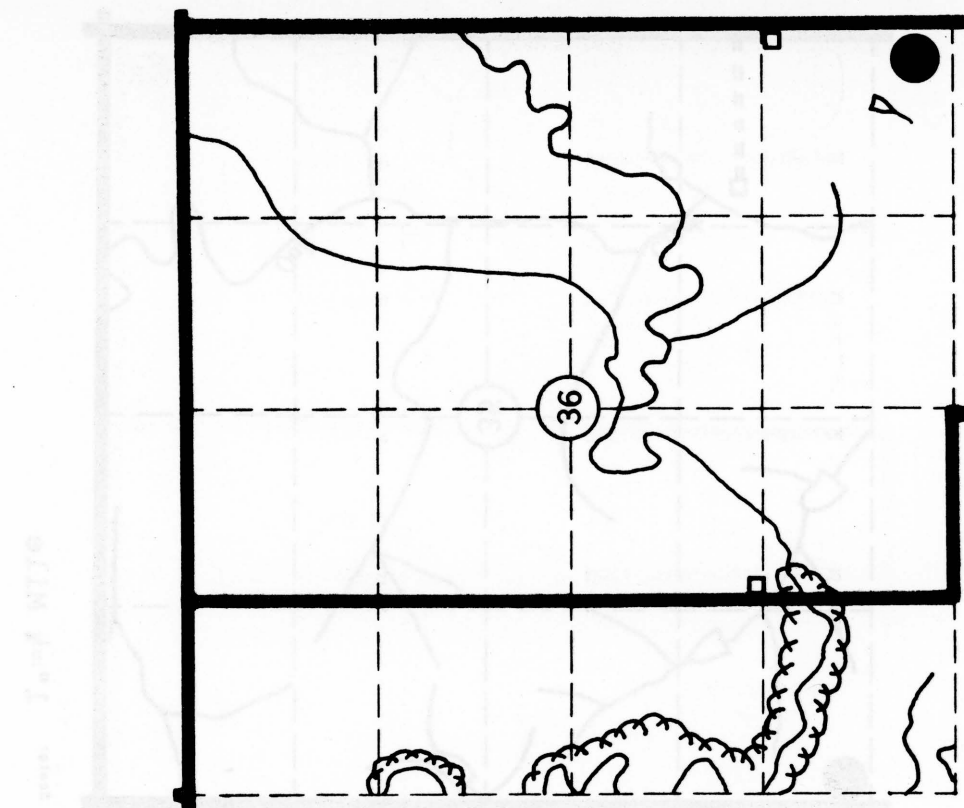
Owner Alice Currie Route #1 Concordia, Kansas  
name address

Nature of Deposit DRY Accessibility Good Site Located on Plate V

Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale  
Member  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_

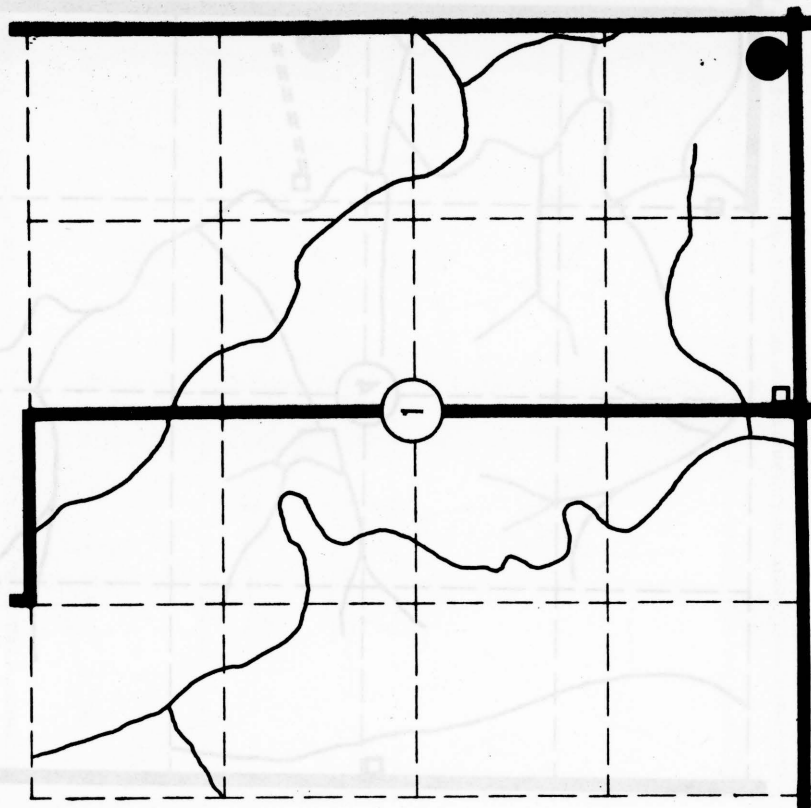


Scale: 1" =  $\frac{1}{4}$  Mile

Site No. June, 1977  
Kg  
Material Limestone County Cloud  
Location SE $\frac{1}{4}$  Sec. 1 Twp. 7S Range 4W  
Owner Craig Collins Jamestown, Kansas  
name  
Mature of Deposit Dry Accessibility Good Site Located on Plate V  
Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous  
 Geological Age \_\_\_\_\_  
 Greenhorn Limestone Formation-Pfeifer Shale  
 Geological Source \_\_\_\_\_  
 Member \_\_\_\_\_  
 Material Similar To \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile



Ls+75  
Kg  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County \_\_\_\_\_  
 Location SE $\frac{1}{4}$  Sec. 14 Twp. 7S Range 4W  
 Owner \_\_\_\_\_ Harry G. Tholstrup Etux Route #3 Concordia, KS  
 Name \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Good Site Located on Plate V  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone-Pfeifer Shale Member

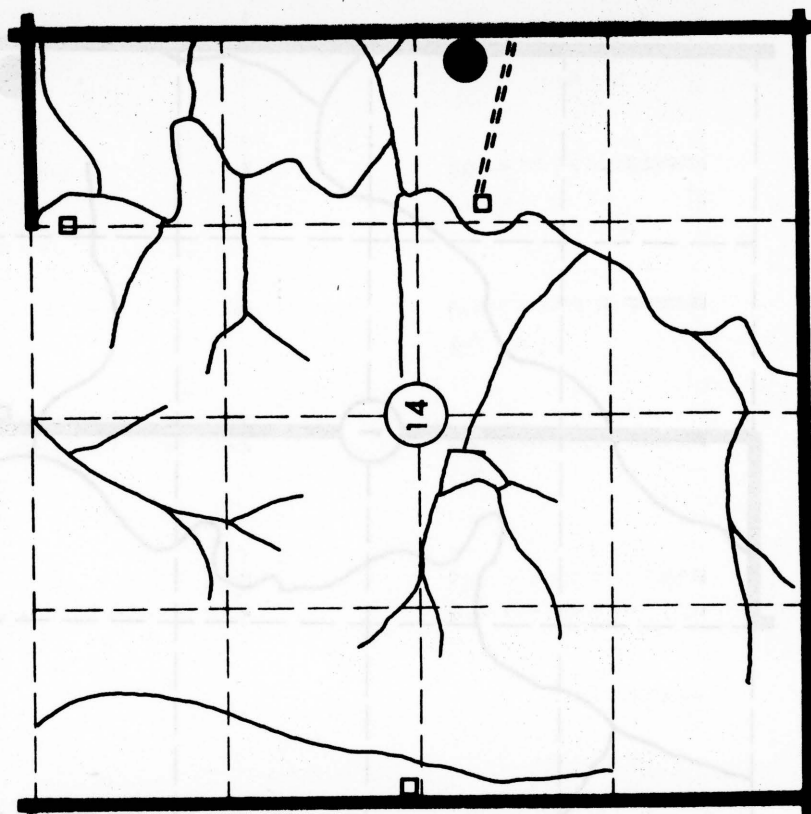
Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

|                   |                  |
|-------------------|------------------|
| <b>Absorption</b> | <b>Soundness</b> |
|-------------------|------------------|

|                    |            |
|--------------------|------------|
|                    | Str. Ratio |
| <b>wt. Cu. Ft.</b> |            |

[illegible]

Scale: 1" =  $\frac{1}{4}$  Mile



LS+76

Site No.      Kg      Date June, 1977

Material Limestone County Cloud

Location SW $\frac{1}{4}$  Sec. 13 Twp. 7S Range 3W

Owner Joe T. McGeoch address Aurora, Kansas

Nature of Deposit Dry Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

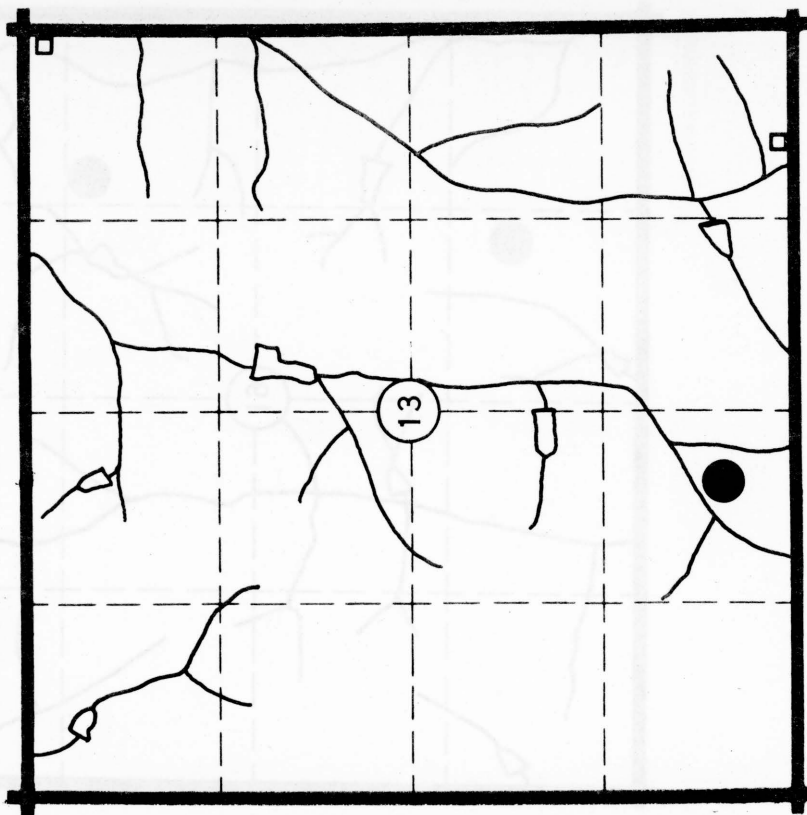
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## Ls+77

Site No. Kg Date June, 1977  
Material Limestone County Cloud  
Location NE $\frac{1}{4}$  Sec. 19 Twp. 7S Range 2W  
Owner Raymond Kulhman, Etal. C/O Don Weaver, Bellville,  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate V  
Status of Site Open Materials Site; Not Sampled

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

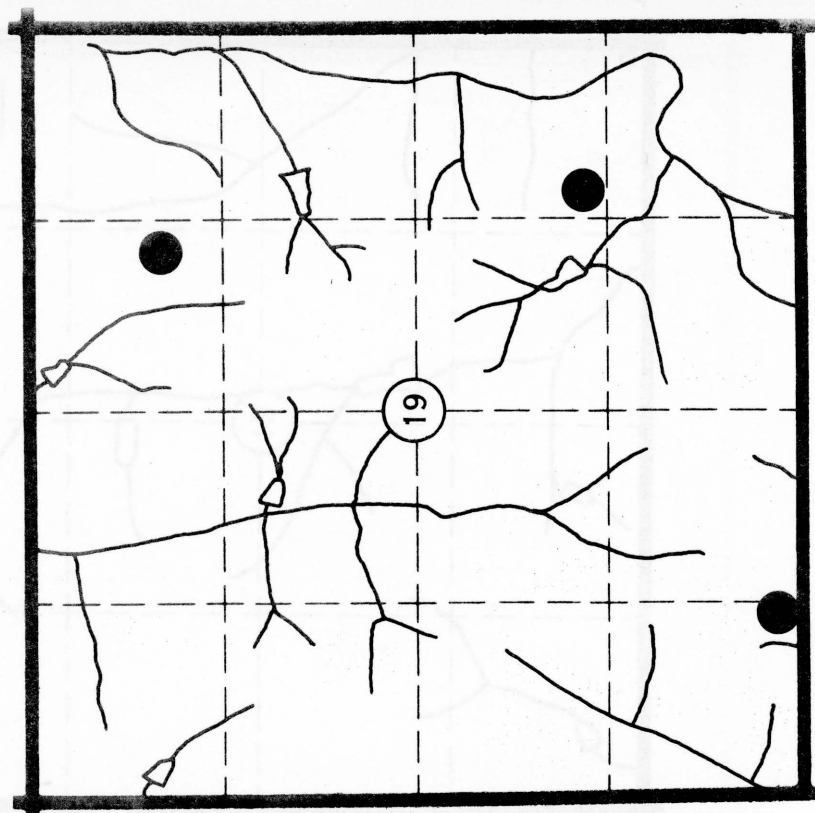
Specific Gravity (Sat.) ----- (Dry) -----

Los Angeles Wear

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

# MATERIAL SITE DATA FORM

Site No. Ks+78 Date June, 1977  
 Material Limestone County Cloud  
 Location SE 1/4 Sec. 19 Twp. 7S Range 2W  
 Owner Carl T. & Alice Shepard c/o Don Weaver, Bellville, KS  
 Nature of Deposit Dry Accessibility Good Site Located on Plate V  
 Status of Site Open Materials Site; Not Sampled

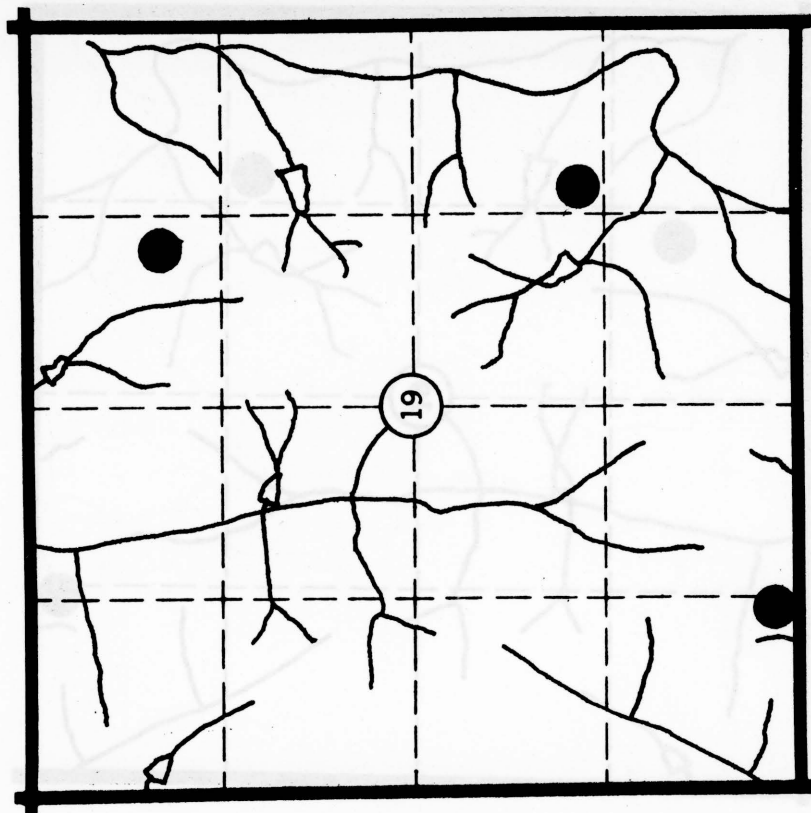
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Near \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_

Scale:



Ls+79  
Site No.     Kg     Date June, 1977  
Material Limestone County Cloud  
Location SW $\frac{1}{4}$  Sec. 19 Twp. 7S Range 2W  
Owner O.B. McGoech Aurora, Kansas  
name  
Nature of Deposit Dry Accessibility Good Site Located on Plate V  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous

Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

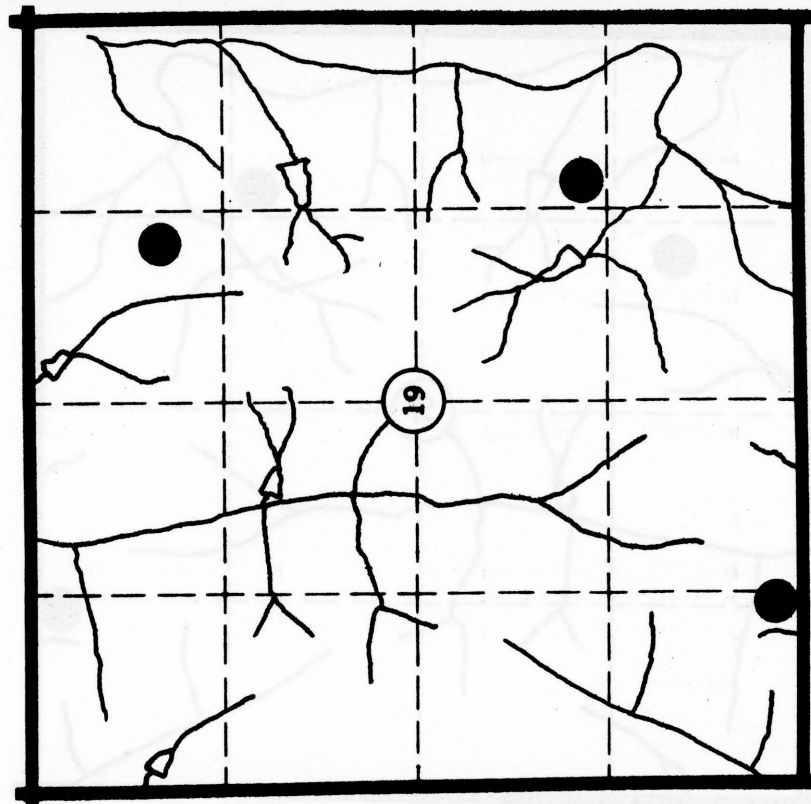
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Assorption | Soundness |
|------------|-----------|
|            |           |

wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



**Scale:**

$$\frac{\text{Ls}+80}{\text{Kg}}$$

Site No.            Kg            Date June, 1977

Material Limestone County Cloud

Location SE $\frac{1}{4}$  Sec. 21 Twp. 7S Range 2W

Owner Carl McGeoch Etux name Aurora, Kansas address           

Nature of Deposit Dry Accessibility Good VI            Site Located on Plate           

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

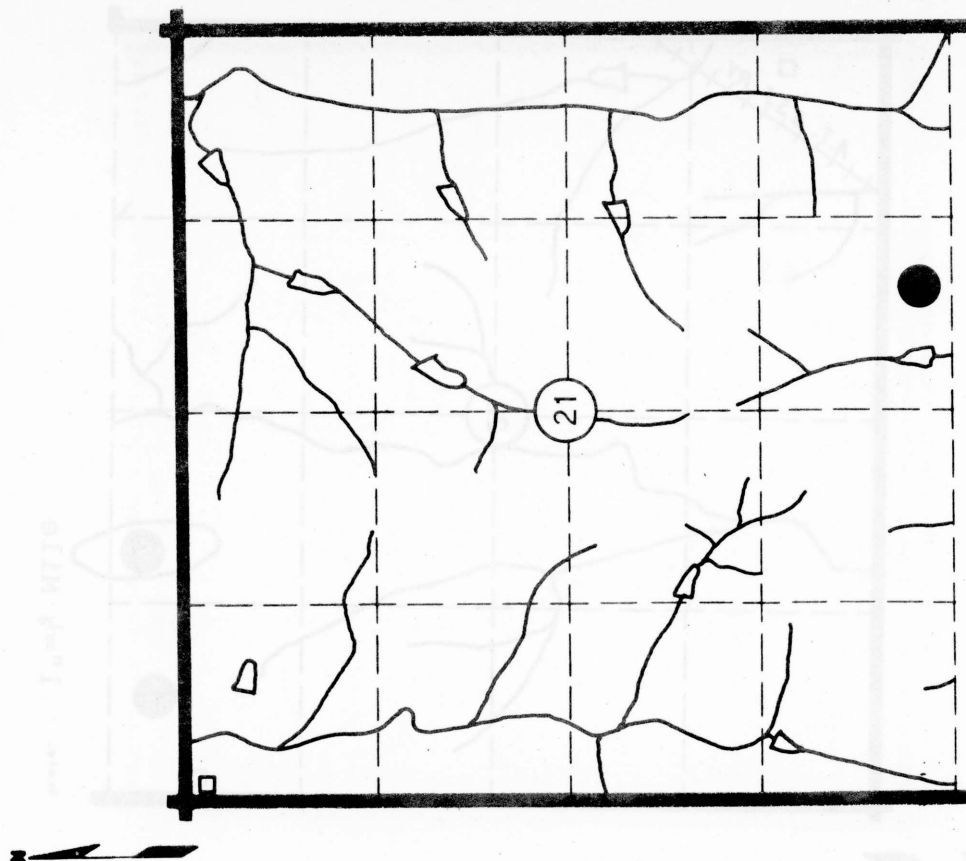
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1"= $\frac{1}{4}$  Mile



## Ls+81

Site No. \_\_\_\_\_ Kg \_\_\_\_\_ Date June, 1977  
Material Limestone County Cloud  
Location SW $\frac{1}{4}$  Sec. 22 Twp. 7S Range 2W  
Owner Norman R. Mossburg c/o Thos. & Jas. Kock Clyde KS  
Name address  
Nature of Deposit Dry Accessibility Good Site located on Plate VI  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Geological Age    | Cretaceous                                         |
| Geological Source | Greenhorn Limestone Formation-Pfeifer Shale Member |

Material Similar To \_\_\_\_\_

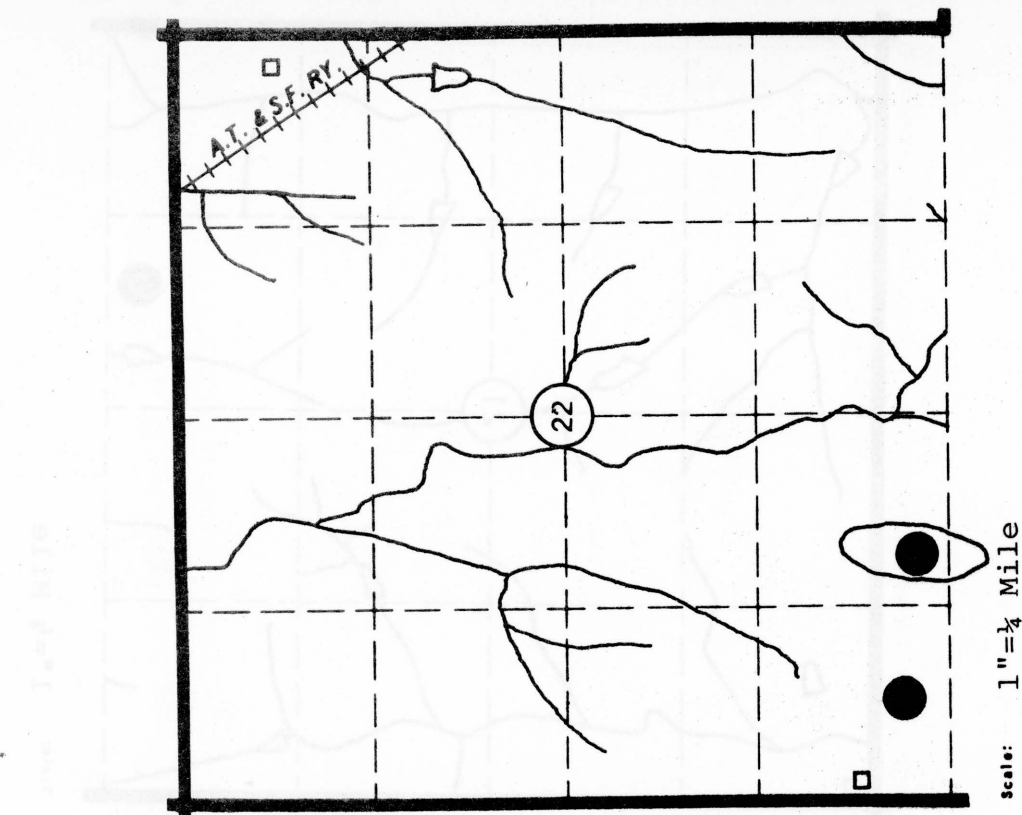
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear

|                   |                  |
|-------------------|------------------|
| <b>Absorption</b> | <b>Soundness</b> |
|-------------------|------------------|

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| No. | Date   | Locality      | Remarks |
|-----|--------|---------------|---------|
| 1   | Aug 10 | San Francisco | ...     |
| 2   | Aug 11 | San Francisco | ...     |
| 3   | Aug 12 | San Francisco | ...     |
| 4   | Aug 13 | San Francisco | ...     |
| 5   | Aug 14 | San Francisco | ...     |
| 6   | Aug 15 | San Francisco | ...     |
| 7   | Aug 16 | San Francisco | ...     |
| 8   | Aug 17 | San Francisco | ...     |
| 9   | Aug 18 | San Francisco | ...     |
| 10  | Aug 19 | San Francisco | ...     |
| 11  | Aug 20 | San Francisco | ...     |
| 12  | Aug 21 | San Francisco | ...     |
| 13  | Aug 22 | San Francisco | ...     |
| 14  | Aug 23 | San Francisco | ...     |
| 15  | Aug 24 | San Francisco | ...     |
| 16  | Aug 25 | San Francisco | ...     |
| 17  | Aug 26 | San Francisco | ...     |
| 18  | Aug 27 | San Francisco | ...     |
| 19  | Aug 28 | San Francisco | ...     |
| 20  | Aug 29 | San Francisco | ...     |
| 21  | Aug 30 | San Francisco | ...     |
| 22  | Aug 31 | San Francisco | ...     |



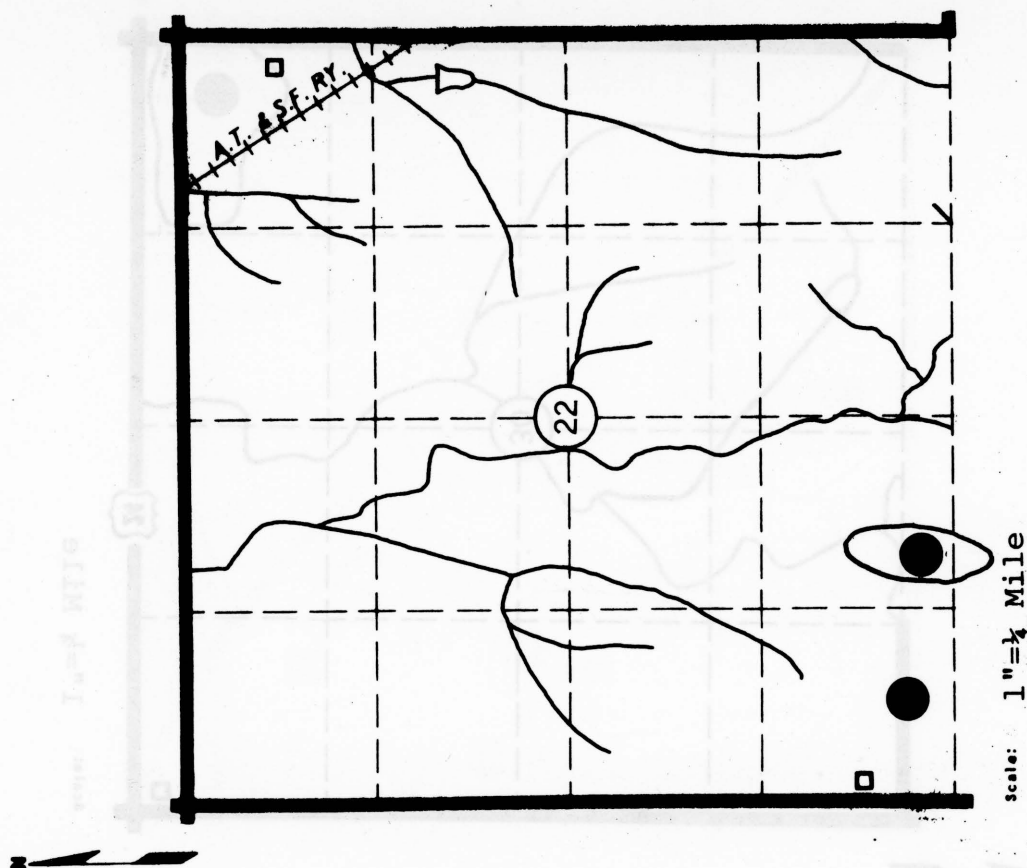
Scale:  $1'' = \frac{1}{4}$  Mile



Ls+82  
Kg  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County \_\_\_\_\_  
 Location SW $\frac{1}{4}$  Sec. 22 Twp. 7S Range 2W  
 Owner Norman R. Mossburg C/o Thos. & Jas. Kock, Clyde,  
 name address KS  
 Nature of Deposit Dry Accessibility Good Site located on Plate VI  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
Los Angeles Near \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## SG+83

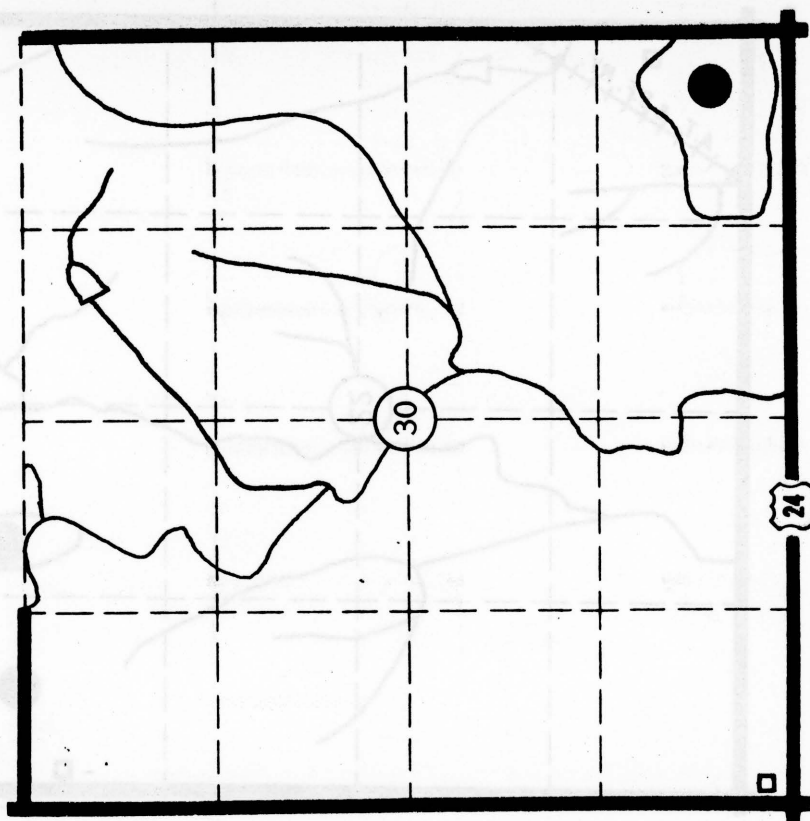
Site No. Qti Date June, 1977  
Material Sand and Gravel County Cloud  
Location SE $\frac{1}{4}$  Sec. 30 Twp. 7S Range 5W  
Owner James Reiter c/o Robert Walker Asherville, KS  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoian Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Near \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## Ls+84

Site No.     Kg     Date     June, 1977      
Material     Limestone     County     Cloud      
Location     SW $\frac{1}{4}$      Sec.     25     Twp.     7S     Range     5W      
Owner     Nile C. Jordan     name     Simpson, Kansas     address     VII      
Nature of Deposit     Dry     Accessibility     Good     Site Located on Plate     VII      
Status of Site     Open Materials Site; Not Sampled    

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

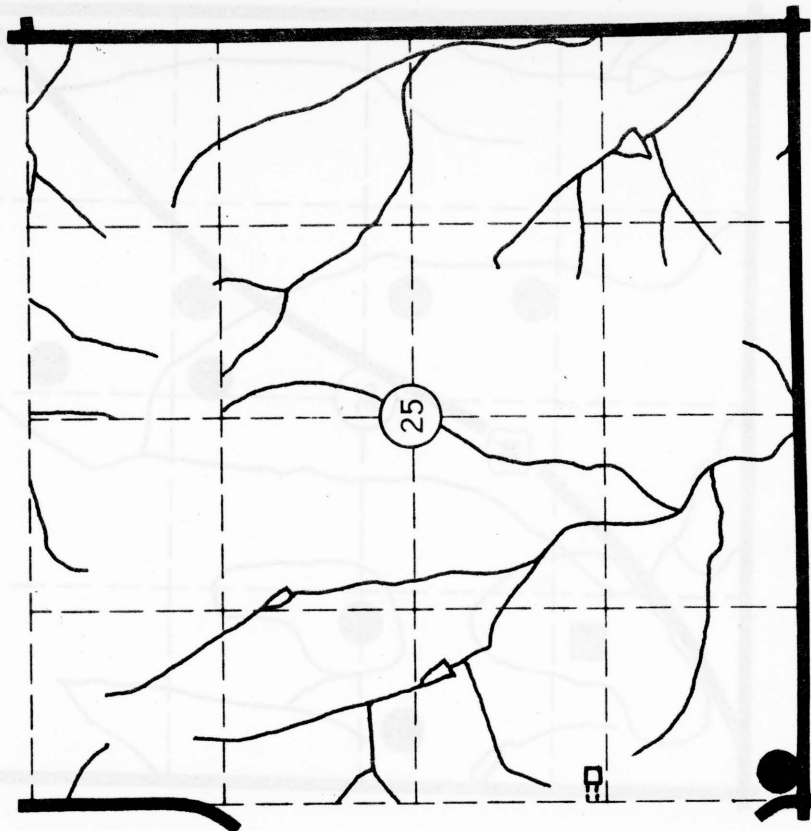
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

SG+85  
Qti \_\_\_\_\_ Date June, 1977

Material Sand and Gravel County Cloud

Location SW $\frac{1}{4}$ , NW $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W

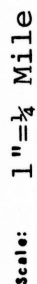
Owner James Reiter C/o Robert Walker Asherville, KS  
address \_\_\_\_\_

Nature of Deposit Dry Accessibility Good Site located on Plate VII

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Illinoian Terrace  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



# MATERIAL SITE DATA FORM

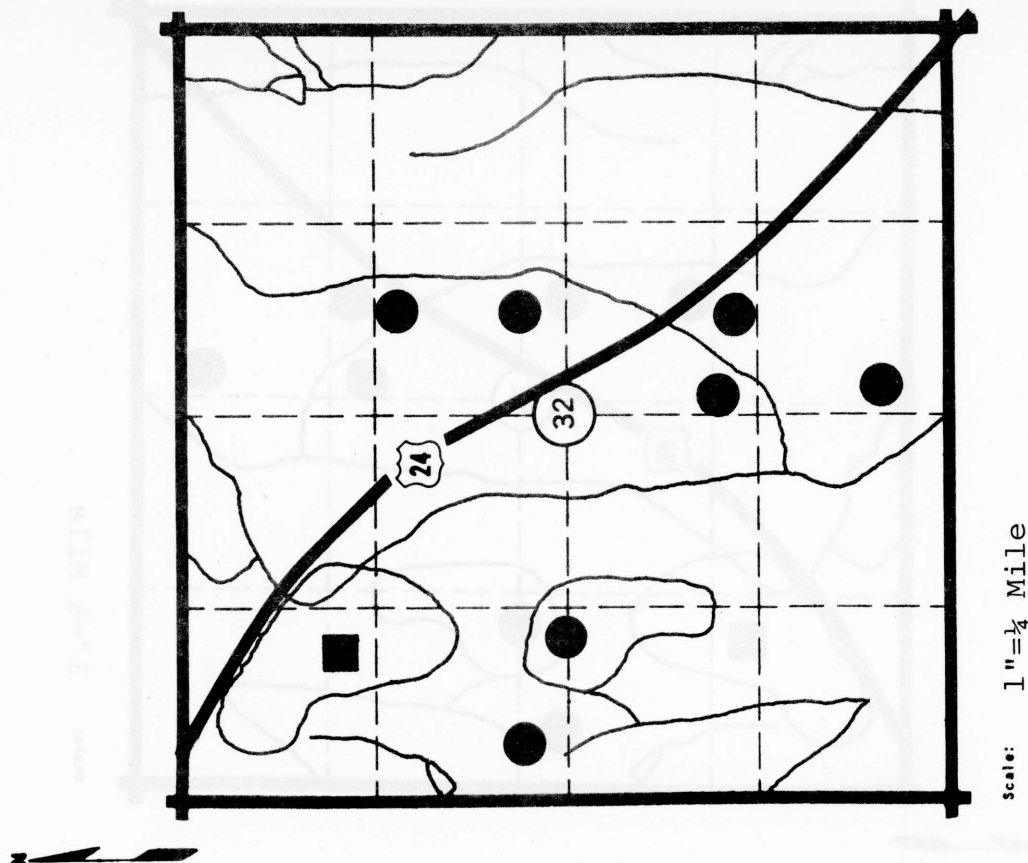
SG+86  
Qti \_\_\_\_\_ Date June, 1977  
 Sand and Gravel \_\_\_\_\_ County \_\_\_\_\_ Cloud \_\_\_\_\_  
 SW $\frac{1}{4}$ , NW $\frac{1}{4}$  \_\_\_\_\_ Sec. 32 \_\_\_\_\_ Twp. 7S \_\_\_\_\_ Range 5W  
 James Reiter C/o Robert Walker Asherville, KS  
 \_\_\_\_\_ address \_\_\_\_\_  
 Owner \_\_\_\_\_  
 Nature of Deposit Dry \_\_\_\_\_ Accessibility Good \_\_\_\_\_ Site located on Plate VII  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoisan Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_





SG+87  
Qti \_\_\_\_\_ Date June, 1977

Material Sand and Gravel County Cloud

Location SW $\frac{1}{4}$ , NE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W

Owner James Reiter C/O Robert Walker Asherville, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Quaternary  
Geological Source Illinoisan Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_





## SG+88

Site No. Qti Date June, 1977

Material Sand and Gravel County Cloud

Location SW $\frac{1}{4}$ , NE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W

Owner James Reiter C/o Robert Walker Asherville, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

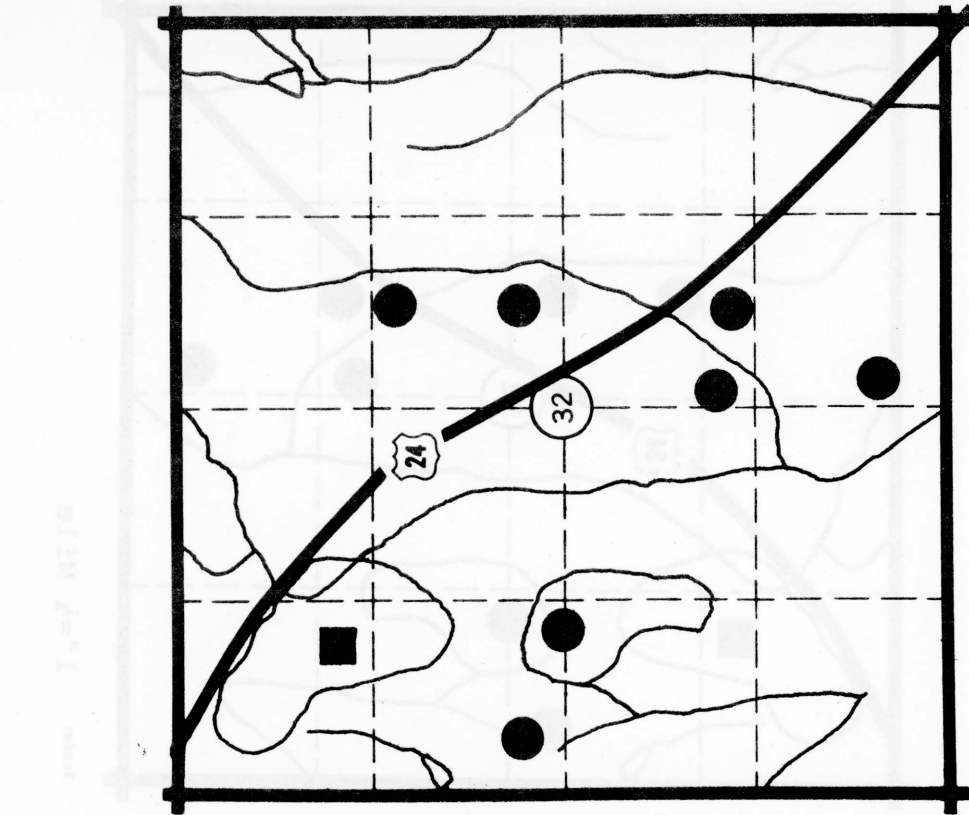
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoian Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



**Scale:** 1" =  $\frac{1}{4}$  Mile

SG+89

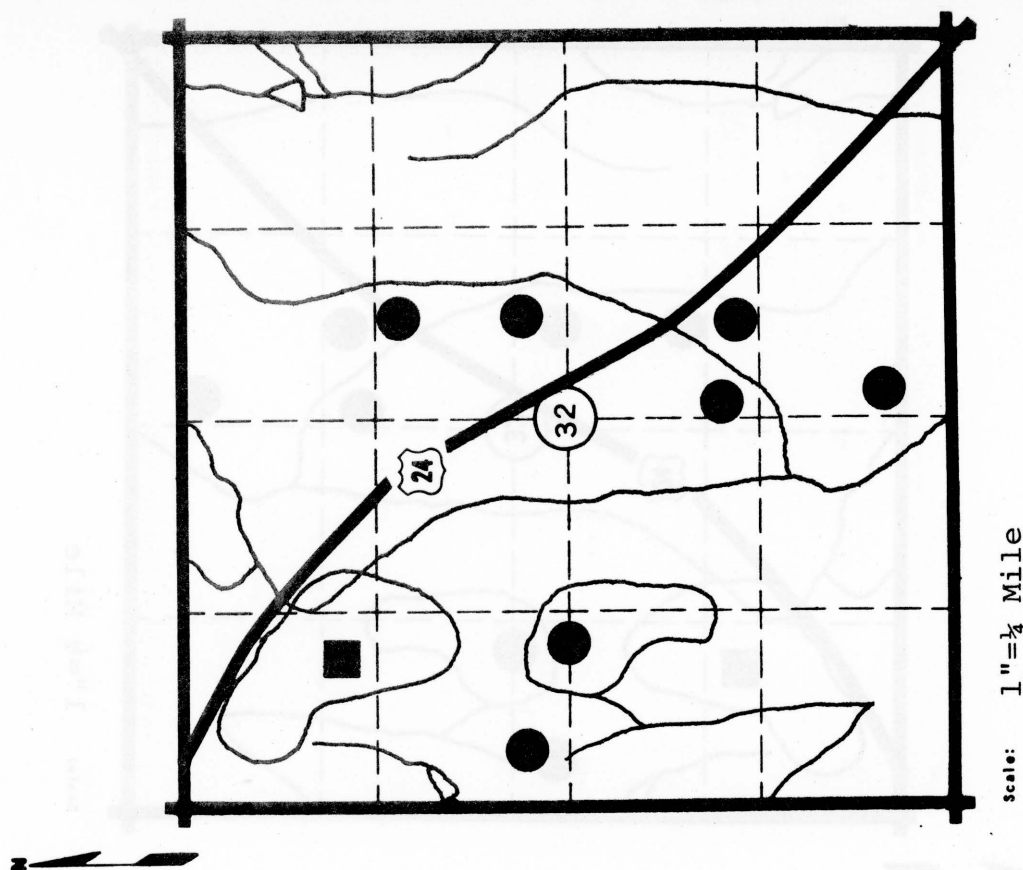
Site No. Qti Date June, 1977  
Material Sand and Gravel County Cloud  
Location NW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W  
Owner James Reiter c/o Robert Walker Asherville, KS  
address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoisian Terrace  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale:  $1" = \frac{1}{4}$  Mile

# MATERIAL SITE DATA FORM

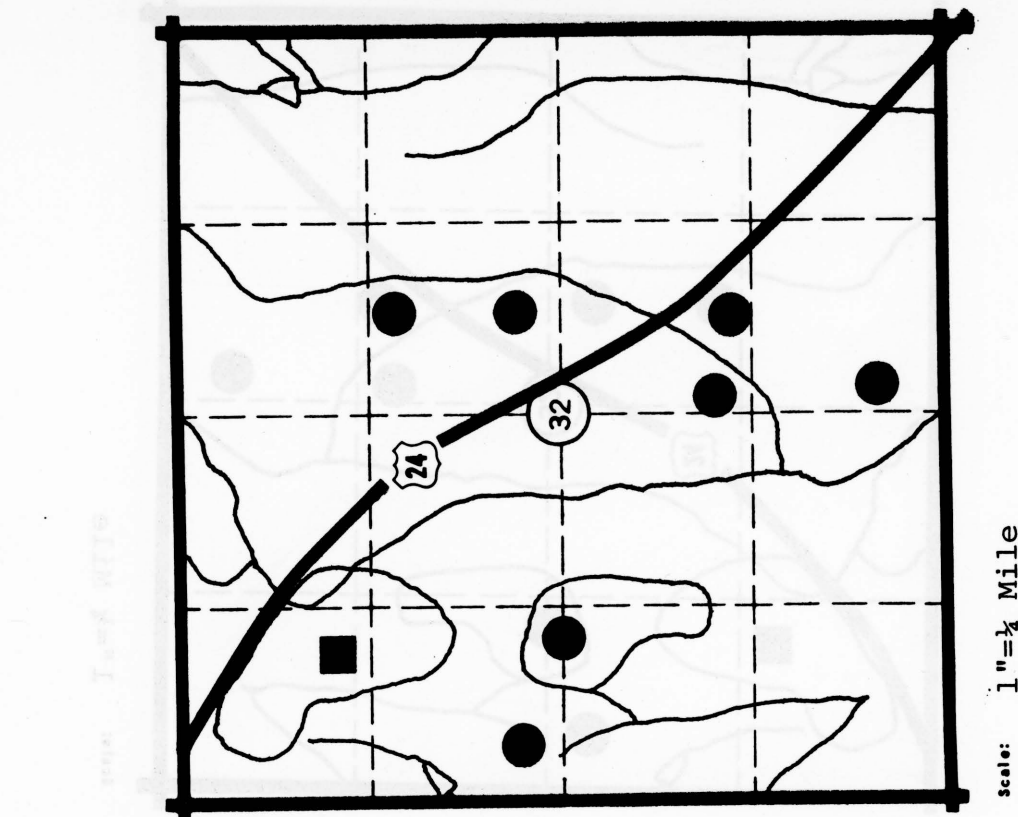
SG+90  
 Site No. Qti Date June, 1977  
 Material Sand and Gravel County Cloud  
 Location NW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W  
 Owner James Reiter C/o Robert Walker Asherville, KS  
 Nature of Deposit Dry Accessibility Good Site located on Plate VII  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |    |    | Mesh 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1/2              | 3/4 | 3/8 | 1/4 | 16 | 20 | 50       | 100  |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |     |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Illinoian Terrace  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



# MATERIAL SITE DATA FORM

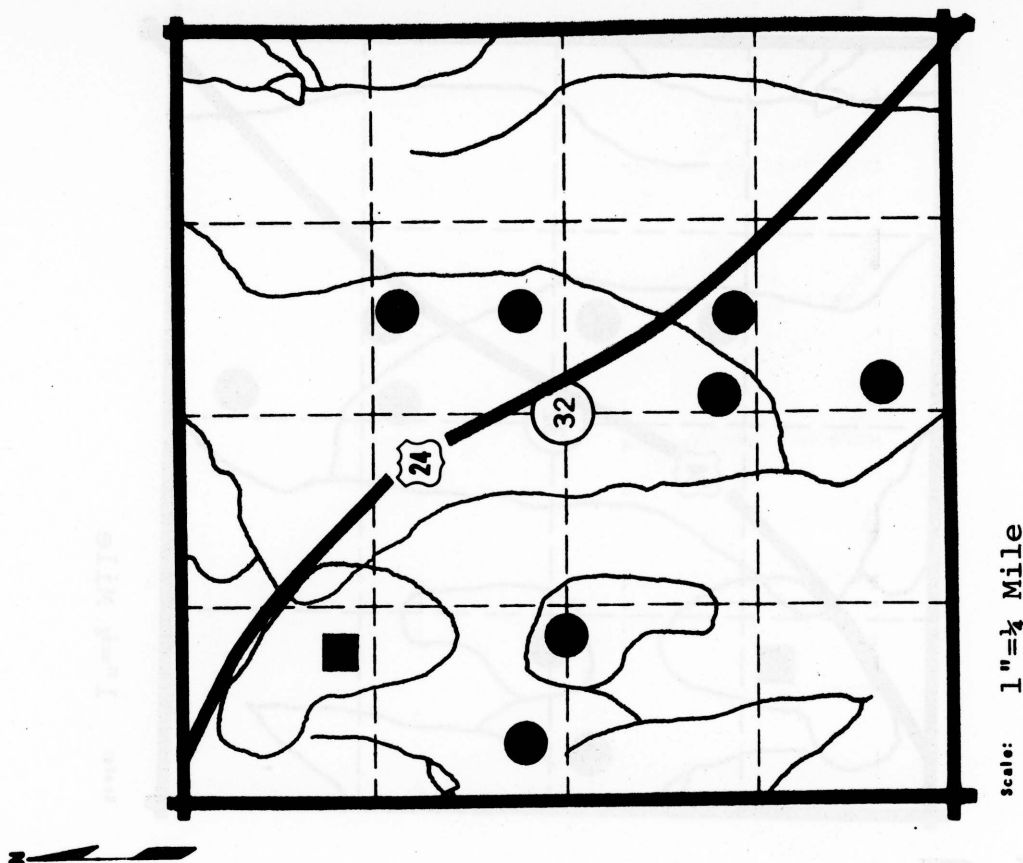
SG+91  
Qti \_\_\_\_\_ Date June, 1977  
Material Sand and Gravel County Cloud  
Location SW $\frac{1}{4}$ , SE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 5W  
Owner James Reiter c/o Robert Walker Asherville, KS  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoisan Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## SG+92

Site No.     Kg     Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 36 Twp. 7S Range 5W

Owner Grace Thomas Glasco, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

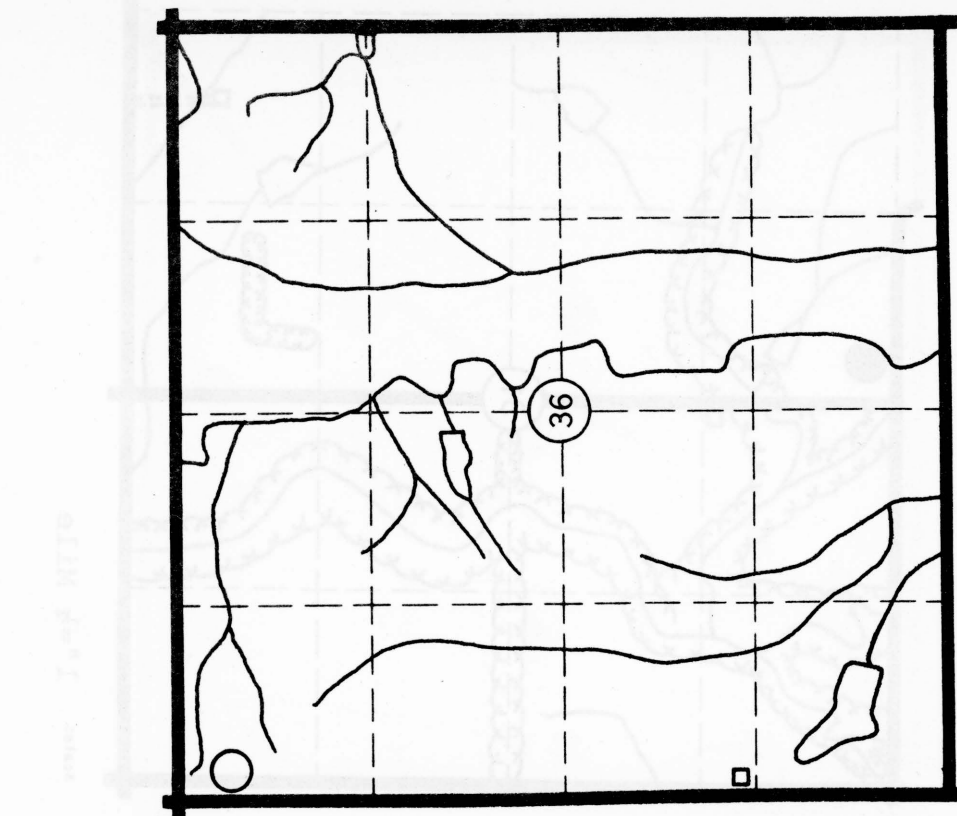
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



Scale: 1"= $\frac{1}{4}$  Mile



SG+93  
Qti \_\_\_\_\_ Date June, 1977

Material Sand and Gravel County Cloud

Location NE<sup>1</sup>/<sub>4</sub> Sec. 31 Twp. 7S Range 4W

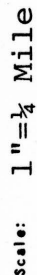
Owner Jones & Cyr Farms, Inc. Route #2 Glasco, KS  
name address

Mature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open Materials Site; Not Sampled

[illegible]

|                         |                    |
|-------------------------|--------------------|
| Geological Age          | Quaternary         |
| Geological Source       | Illinoisan Terrace |
| Material Similar To     |                    |
| Specific Gravity (Sat.) | (Dry)              |
| Los Angeles Wear        |                    |
| Absorption              | Soundness          |
| Wt. Cu.-Ft.             | Str. Ratio         |
| Remarks                 |                    |





Ls+94  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location NE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 4W

Owner Erich Henning et. ux. Glasco, Kansas  
address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

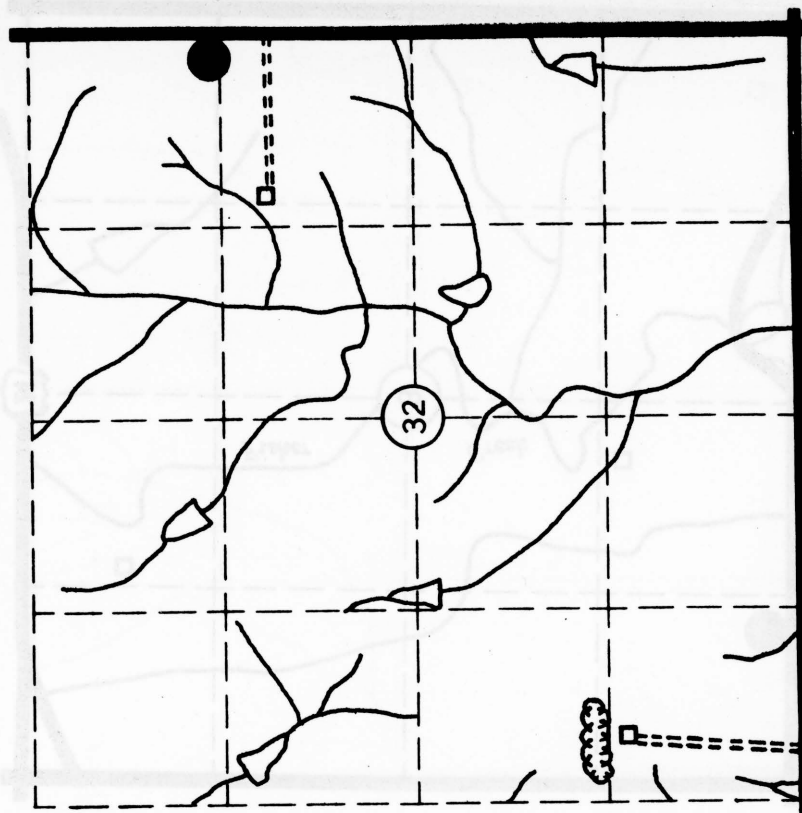
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

**Los Angeles Wear** \_\_\_\_\_

| Absorption | Soundness |
|------------|-----------|
|            |           |

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

**Remarks** \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile

## MATERIAL SITE DATA FORM

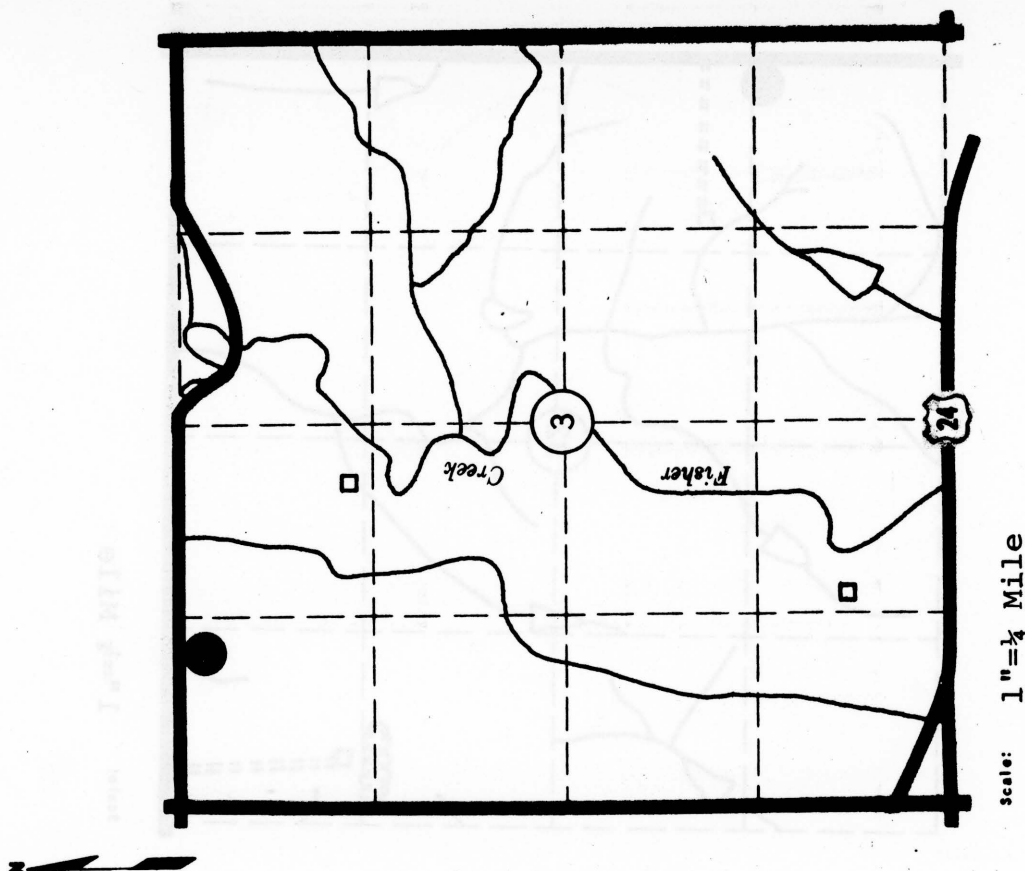
SG+95  
Qti \_\_\_\_\_ Date June, 1977  
Material Sand and Gravel County Cloud  
Location NW $\frac{1}{4}$  Sec. 3 Twp. 8S Range 5W  
Owner Alfred R. Fief et.ux. Glasco, Kansas  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoian Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Weir \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## SG+96

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age \_\_\_\_\_ Quaternary  
Geological Source \_\_\_\_\_ Illinoian Terrace

Material Similar To \_\_\_\_\_

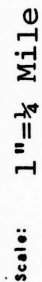
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

|            |  |           |
|------------|--|-----------|
| Absorption |  | Soundness |
|------------|--|-----------|

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



# MATERIAL SITE DATA FORM

SG+97

Site No. Qti Date June, 1977

Material Sand And Gravel County Cloud

Location SW $\frac{1}{4}$  Sec. 9 Twp. 8S Range 4W

Owner Keith R. Elliott et. ux. Route #1 Glasco, KS  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

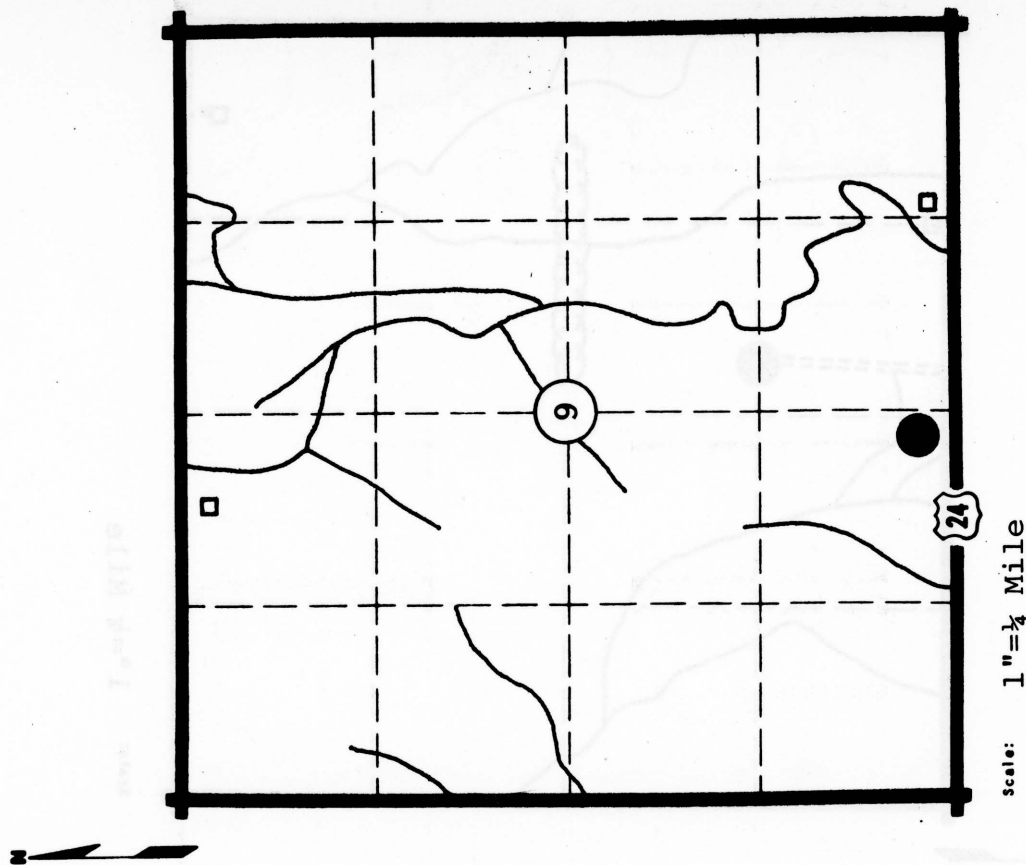
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Illinoisan Terrace  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



## 86+5T

Site No.            Kg            Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 30 Twp. 8S Range 5W

Owner James P. McKeown name Simpson, Kansas address VII

Nature of Deposit Dry Accessibility Good Site Located on Plate VII

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Cretaceous  
Greenhorn Limestone Formation-Pfeifer Shale  
Member

Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

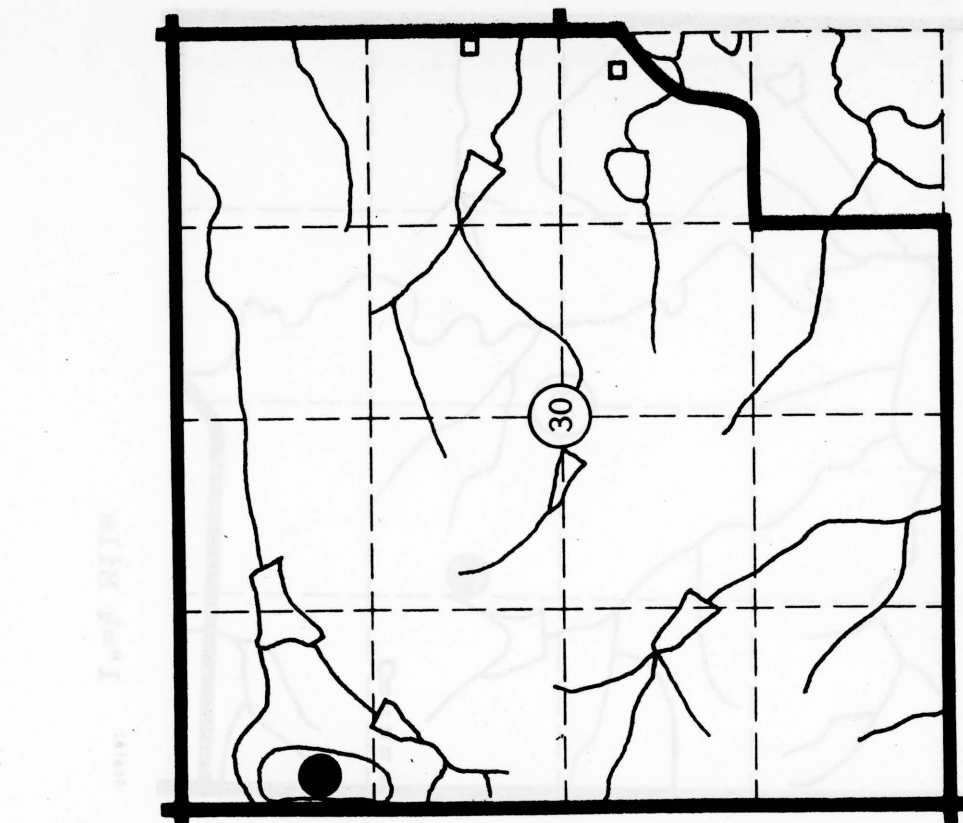
Los Angeles Year \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

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**Remarks**



Scale:  $1" = \frac{1}{4}$  Mile

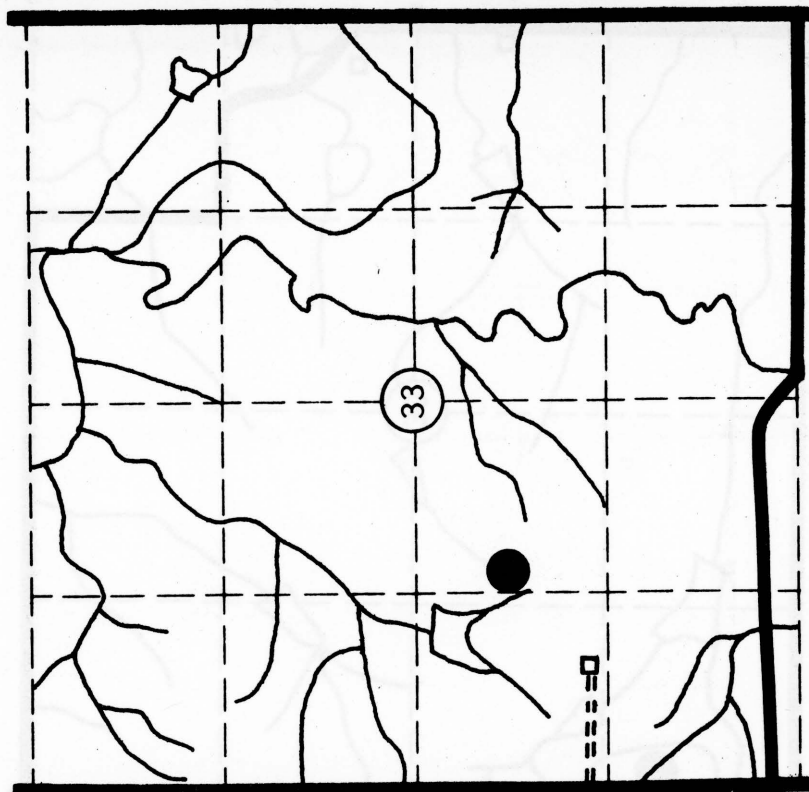


Si+99  
 Site No. OL Date June, 1977  
 Material Silt County Cloud  
 Location SW $\frac{1}{4}$  Sec. 33 Twp. 8S Range 5W  
 Owner James F. Griffin 117 Cherry Ave. Minneapolis, KS  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Open Materials Site; Not Sampled

[illegible]

### CORRELATION DATA

Geological Age Quaternary  
Geological Source Loess  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile



## Ls+100

Site No. Kg Date June, 1977

Material Limestone County Cloud

Location NE $\frac{1}{4}$  Sec. 30 Twp. 7S Range 2W

Owner Warren W. Corday Jamestown, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VIII

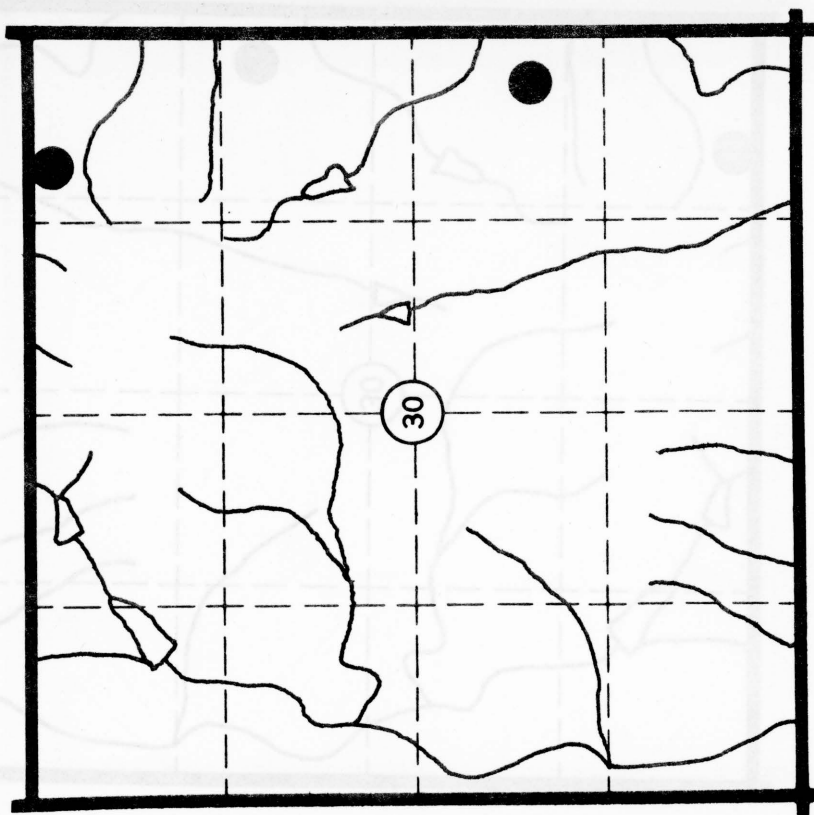
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



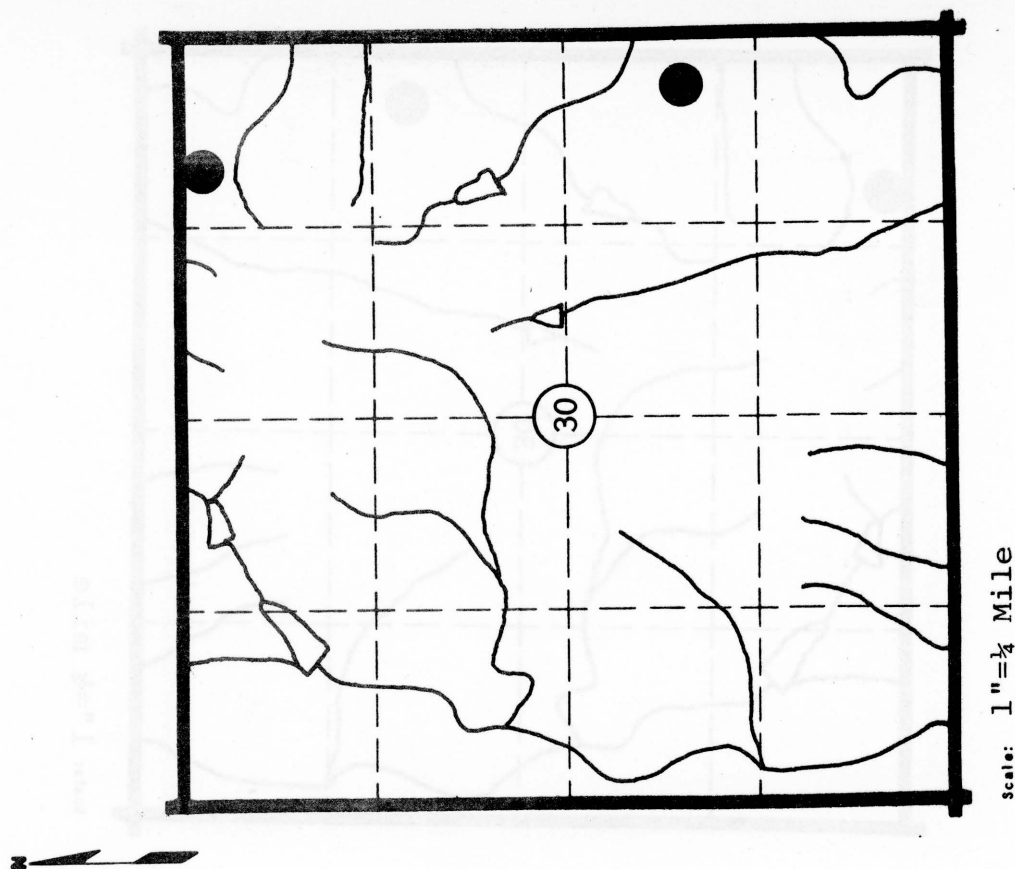
scale:  $1'' = \frac{1}{4}$  mile

## CL+101

Site No. Kd Date June, 1977  
Material Clay County Cloud  
Location SE $\frac{1}{4}$  Sec. 30 Twp. 7S Range 2W  
Owner General Finance, Inc. Box 369 Concordia, KS  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
Status of Site Open Materials Site; Not Sampled

[illegible]

|                         |                                      |
|-------------------------|--------------------------------------|
| Geological Age          | Cretaceous                           |
| Geological Source       | Dakota Formation-Janssen Clay Member |
| Material Similar To     |                                      |
| Specific Gravity (Sat.) | (Dry)                                |
| Los Angeles Wear        |                                      |
| Absorption              | Soundness                            |
| Wt. Cu.Ft.              | Str. Ratio                           |
| Remarks                 |                                      |



scale:  $1" = \frac{1}{4}$  Mile

## LS+102

Site No.            Kg            Date June, 1977

Material Limestone County Cloud

Location NE $\frac{1}{4}$  Sec. 32 Twp. 7S Range 2W

Owner Raymond L. Richard Etux Aurora, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate VIII

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous

Geological Source Greenhorn Limestone-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

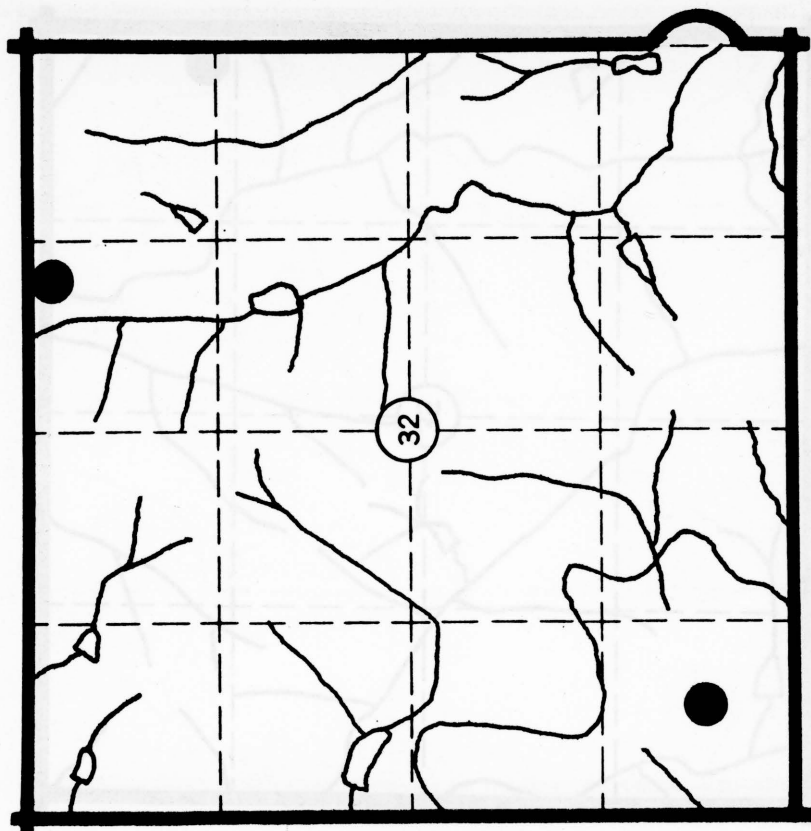
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

| Absorption | Soundness |
|------------|-----------|
|            |           |

wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



Scale: 1" =  $\frac{1}{4}$  Mile

## LS+103

Site No. K9 Date June, 1977  
Material Limestone County \_\_\_\_\_ Cloud \_\_\_\_\_  
Location SE $\frac{1}{4}$  Sec. 35 Twp. 7S Range 3W  
Owner \_\_\_\_\_ name \_\_\_\_\_ address \_\_\_\_\_  
Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

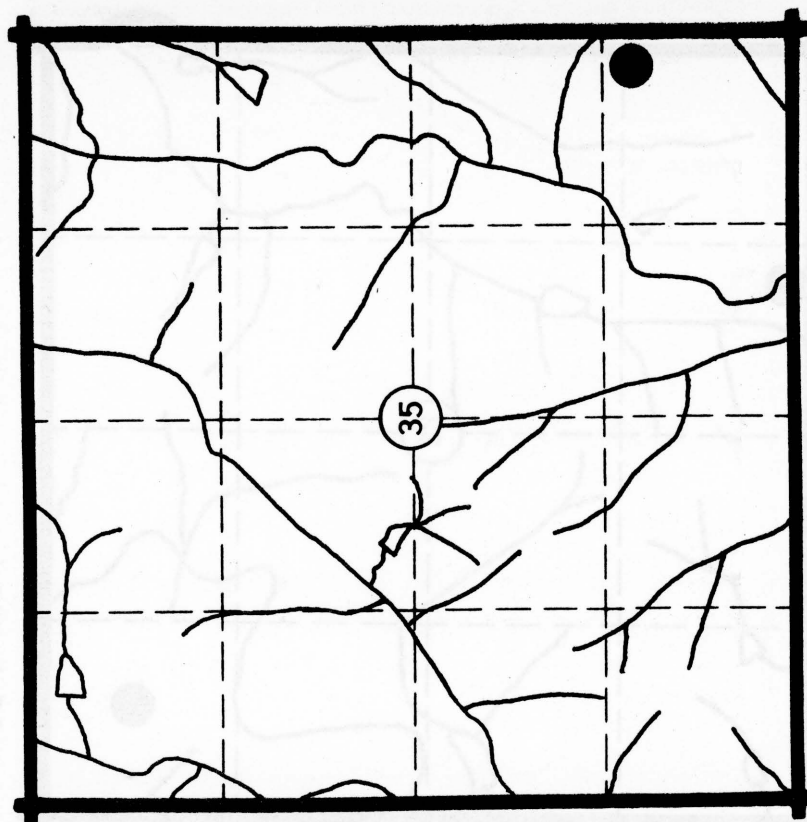
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$ " Mile

# MATERIAL SITE DATA FORM

CL+104

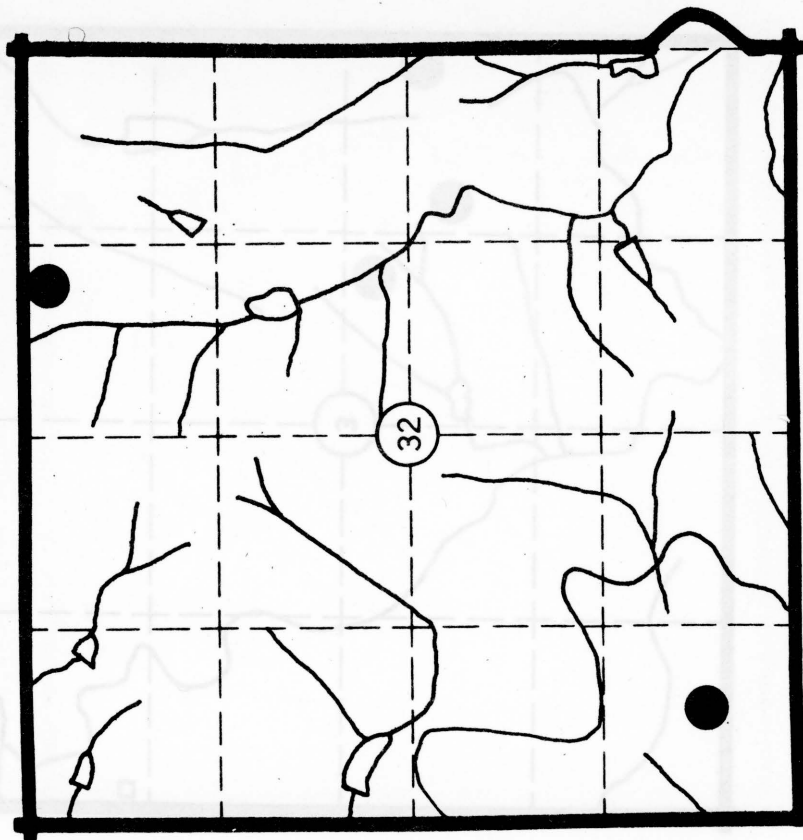
Site No. Kd Date June, 1977  
 Material Clay County Cloud  
 Location SW 1/4 Sec. 32 Twp. 7S Range 2W  
 Owner General Finance, Inc. Box 369 Concordia, KS  
 Nature of Deposit DRY Accessibility Good Site Located on Plate VIII  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Dakota Formation-Janssen Clay Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (sat.) \_\_\_\_\_ (dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile



$$\frac{L_s + 105}{Kq}$$

Ls+105  
 Site No. Kg Date June, 1977  
 Material Limestone County Cloud  
 Location SE  $\frac{1}{4}$ , NE  $\frac{1}{4}$  Sec. 3 Twp. 8S Range 3W  
 Owner John R. Breen Miltonvale, Kansas address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Cretaceous  
Geological Age

Greenhorn Limestone Formation-Pfeifer Shale  
Member  
Geological Source

Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

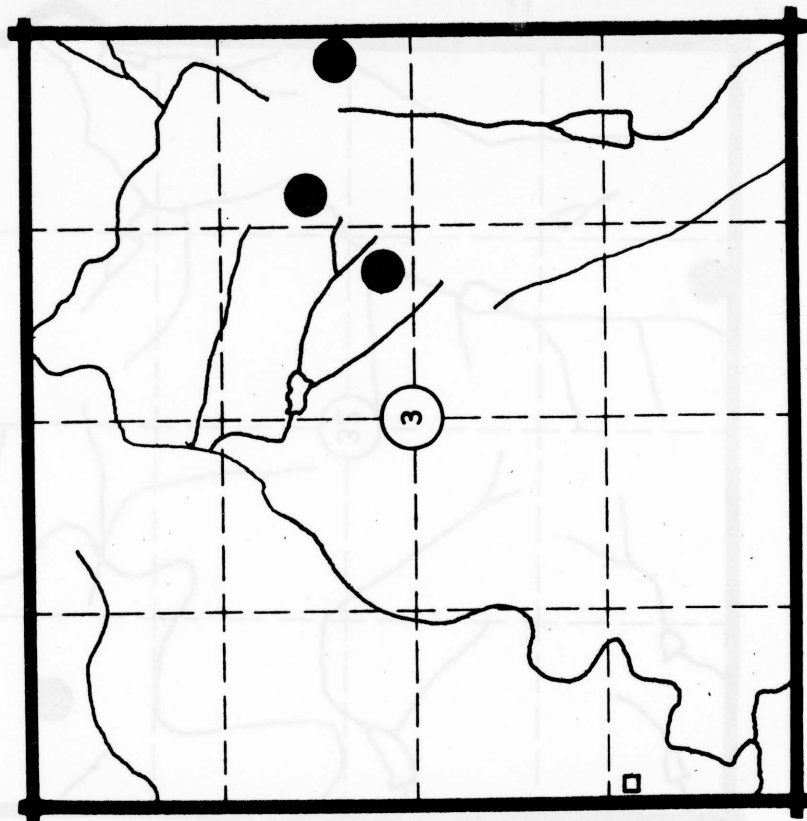
Los Angeles Near \_\_\_\_\_

| Assortment | Soundness |
|------------|-----------|
|            |           |

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

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**Remarks**



Scale: 1" =  $\frac{1}{4}$  Mile



## LS+106

Site No. Kg Date June, 1977

Material Limestone County Cloud

Location SW $\frac{1}{4}$  NE $\frac{1}{4}$  Sec. 3 Twp. 8S Range 3W

Owner John R. Breen name Miltonvale, Kansas address

Nature of Deposit Dry Accessibility Good Site Located on Plate VIII

Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

### CORRELATION DATA

Cretaceous  
Greenhorn Limestone-Pfeifer Shale  
Member

Material Similar To \_\_\_\_\_

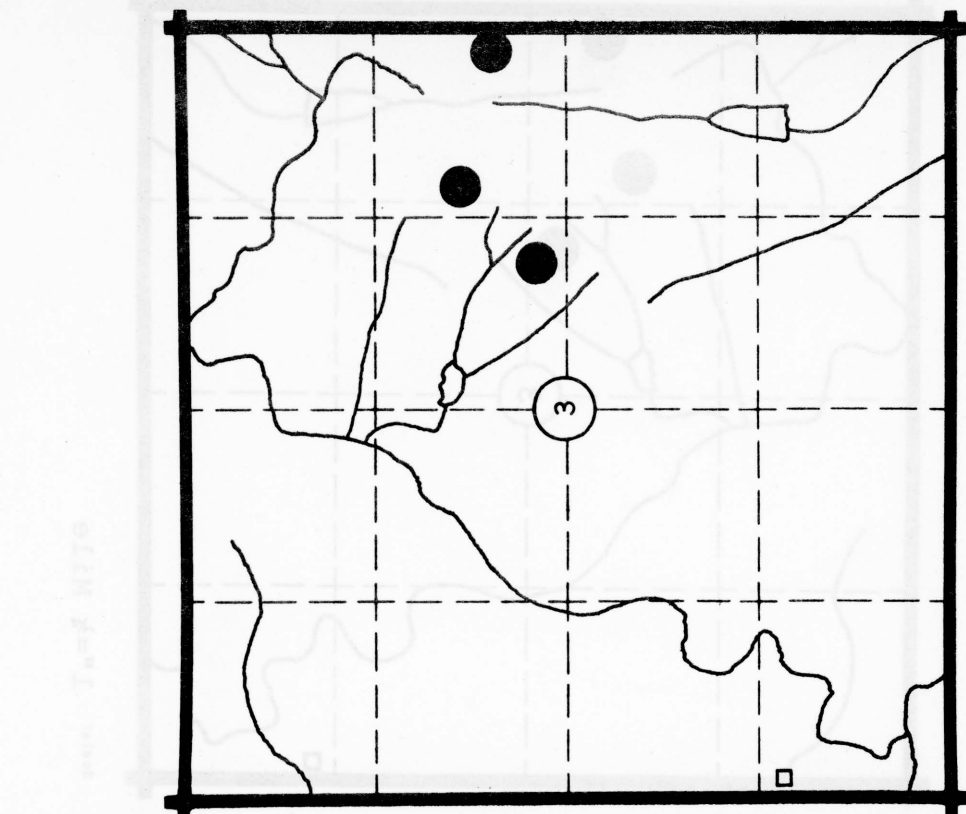
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

**Absorption** \_\_\_\_\_ **Soundness** \_\_\_\_\_

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

# MATERIAL SITE DATA FORM

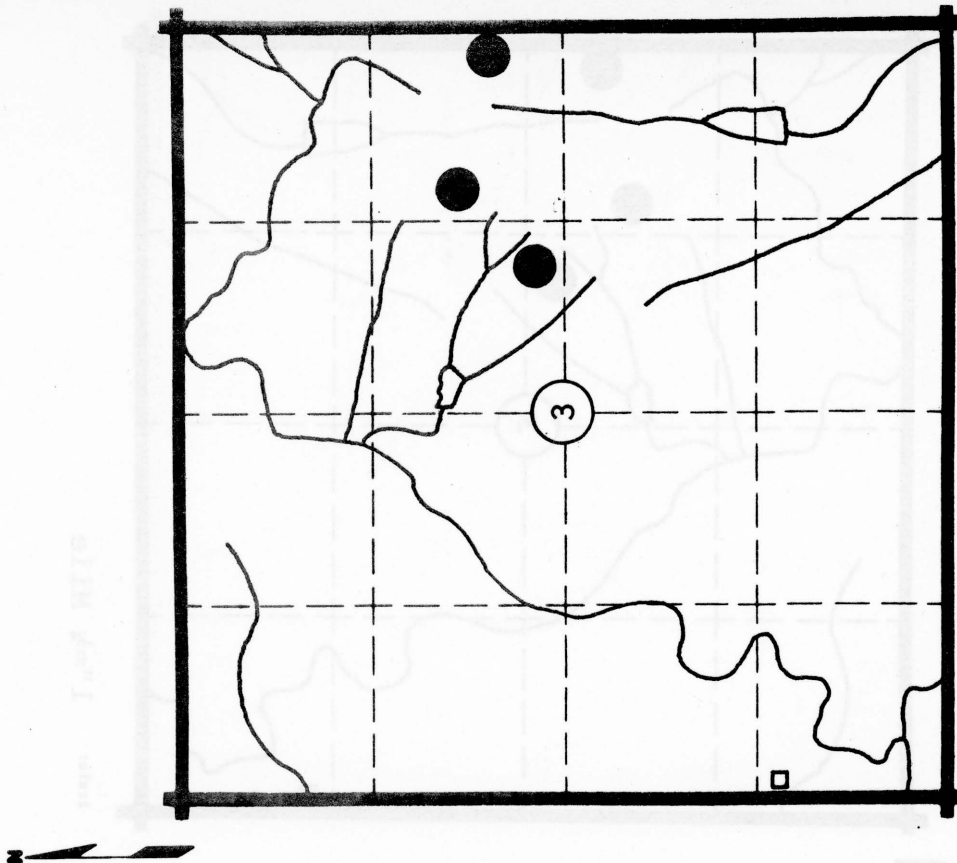
Site No. Ls+107 Date June, 1977  
 Material Limestone County Cloud  
 Location SE 1/4, NE 1/4 Sec. 3 Twp. 8S Range 3W  
 Owner John R. Breen Miltonvale, Kansas address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
 Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    | Wash 200 | G.F. | L.L. | P.L. |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----------|------|------|------|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                      |                   |                  |     |     |   |   |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile

## Ls+108

Site No.      Kg      Date June, 1977

Material Limestone County Cloud

Location NW $\frac{1}{4}$  Sec. 1 Twp. 8S Range 3W

Owner Nita A. Hay name Ames, Kansas address     

Nature of Deposit Dry Accessibility Good Site Located on Plate VIII

Status of Site Open Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous

Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member

Material Similar To \_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

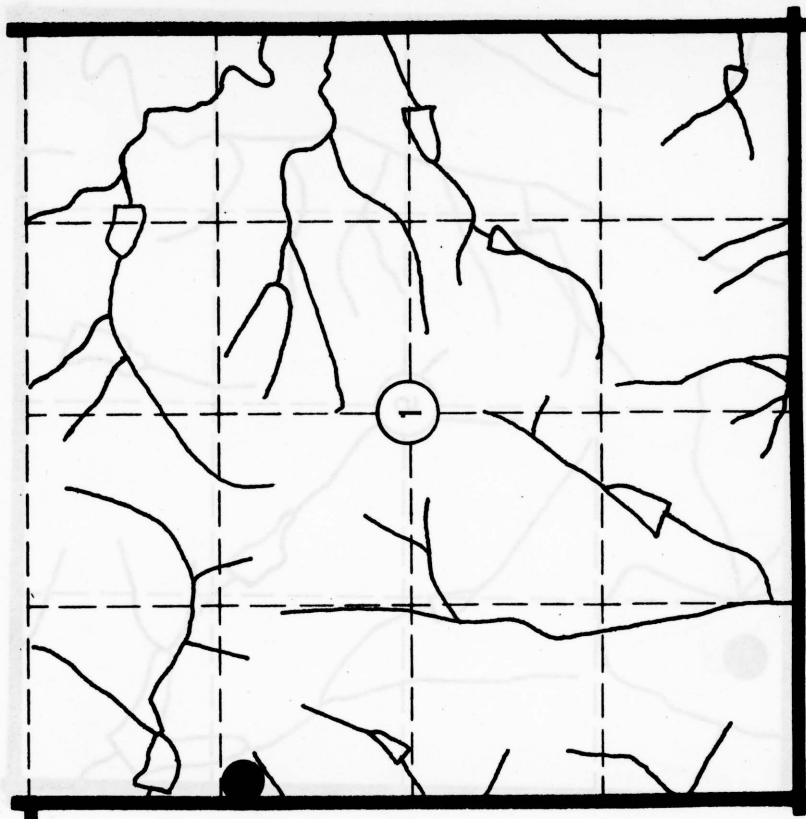
---

**Los Angeles Year**

| Absorption | Soundness |
|------------|-----------|
|------------|-----------|

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



Scale:  $1'' = \frac{1}{4}$  Mile

## CL+109

Site No. kd Date June, 1977  
 Material Clay County Cloud  
 Location NW $\frac{1}{4}$  Sec. 5 Twp. 8S Range 2W  
 Owner General Finance, Inc. Box 369 Concordia, KS  
 name  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Dakota Formation-Janssen Clay Member

Material Similar To \_\_\_\_\_

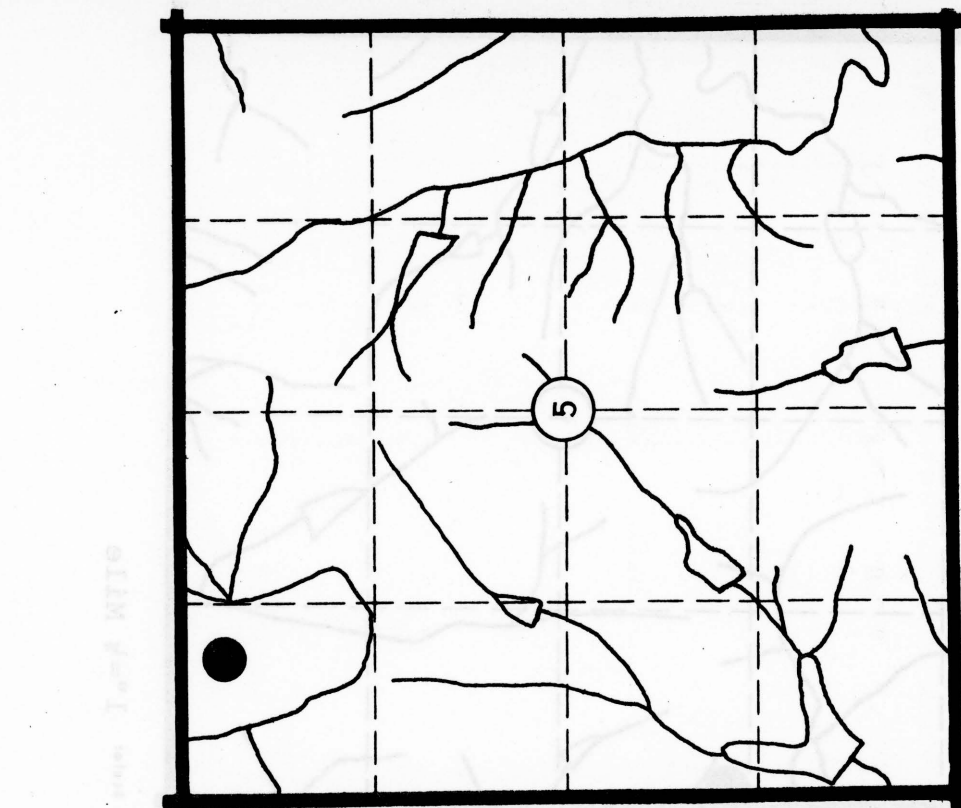
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Near \_\_\_\_\_

|                   |       |                  |       |
|-------------------|-------|------------------|-------|
| <b>Absorption</b> | _____ | <b>Soundness</b> | _____ |
|-------------------|-------|------------------|-------|

Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

| Remarks |
|---------|
|         |



Scale: 1" =  $\frac{1}{4}$  Mile

## SS+110

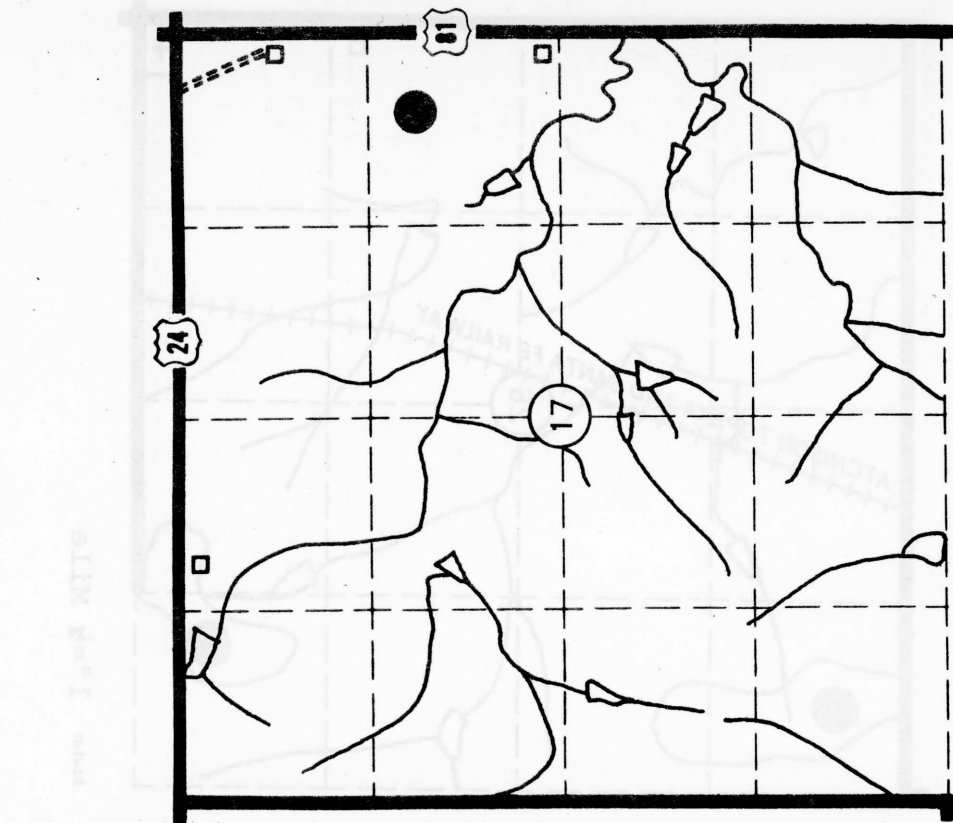
Site No. Kd Date June, 1977  
Material Sandstone County Cloud  
Location NE $\frac{1}{4}$  Sec. 17 Twp. 8S Range 3W  
Owner Florence Evelyn Colton Delphos, Kansas  
name address  
Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
Status of Site Open Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

### CORRELATION DATA

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
\_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile



Ls+111  
Kg  
 Site No. \_\_\_\_\_ Date June, 1977  
 Material Limestone County \_\_\_\_\_  
 Location NW $\frac{1}{4}$  Sec. 26 Twp. 7S Range 2W  
 Owner Dale Moore Etux Clyde, Kansas  
 name \_\_\_\_\_ address \_\_\_\_\_  
 Nature of Deposit Dry Accessibility Good Site located on Plate IX  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Greenhorn Limestone Formation-Pfeifer Shale Member  
Material Similar To \_\_\_\_\_

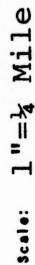
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_





Ls+lll2  
Kg

Site No. \_\_\_\_\_ Date June, 1977

Material Limestone County Cloud

Location SW $\frac{1}{4}$  Sec. 26 Twp. 7S Range 2W

Owner Joyce M. & Delbert Sigle Miltonvale, Kansas address

Nature of Deposit Dry Accessibility Good Site Located on Plate IX

Status of Site Open Materials Site; Not Sampled

[illegible]

Cretaceous  
Greenhorn Limestone-Pfeifer Shale  
Member

Material Similar To \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_

Los Angeles Wear \_\_\_\_\_

Absorption \_\_\_\_\_ Soundness \_\_\_\_\_

Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_

Remarks \_\_\_\_\_



## Fs+113

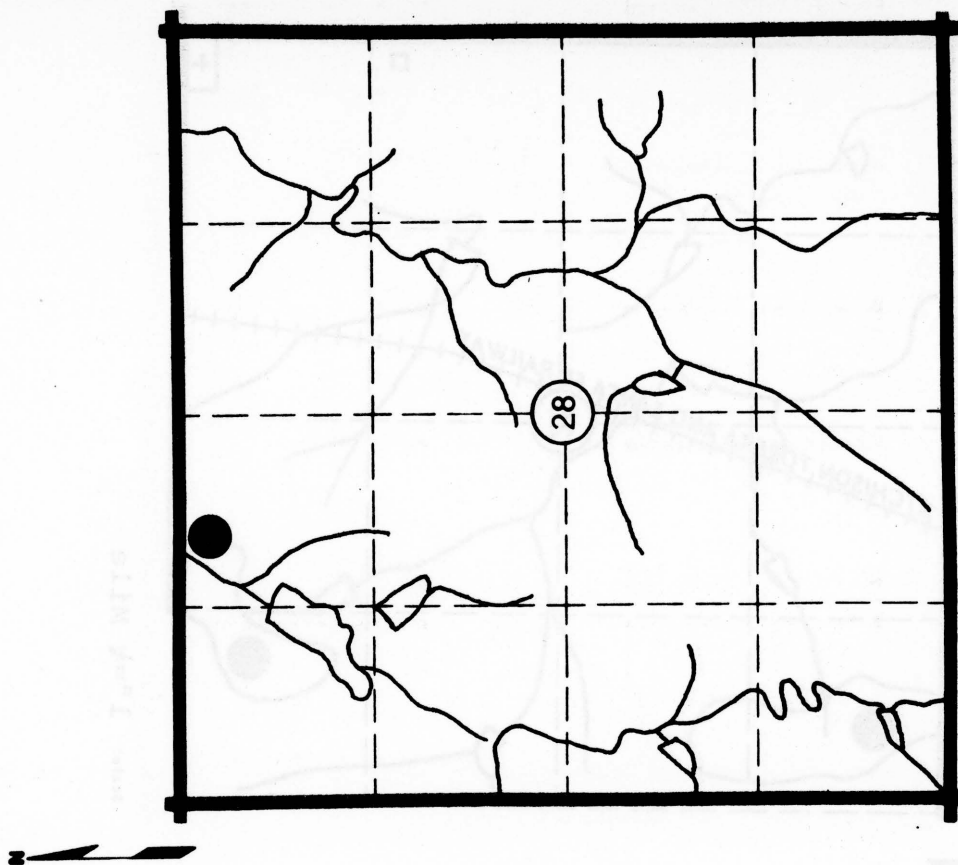
Site No. Kd Date June, 1977  
Material Fine Sand County Cloud  
Location NW $\frac{1}{4}$  Sec. 28 Twp. 7S Range 1W  
Owner Lena & George Haist Miltonvale, Kansas  
Name  
Nature of Deposit Dry Accessibility Good Site Located on Plate IX  
Status of Site Open Materials Site; Not Sampled

## EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## Fs+114

Site No.      Kd      Date June, 1977

Material Fine Sand County Cloud

Location NE $\frac{1}{4}$  Sec. 34 Twp. 7S Range 1W

Owner Larry J. Nobert Ames, Kansas  
name address

Nature of Deposit Dry Accessibility Good Site Located on Plate IX

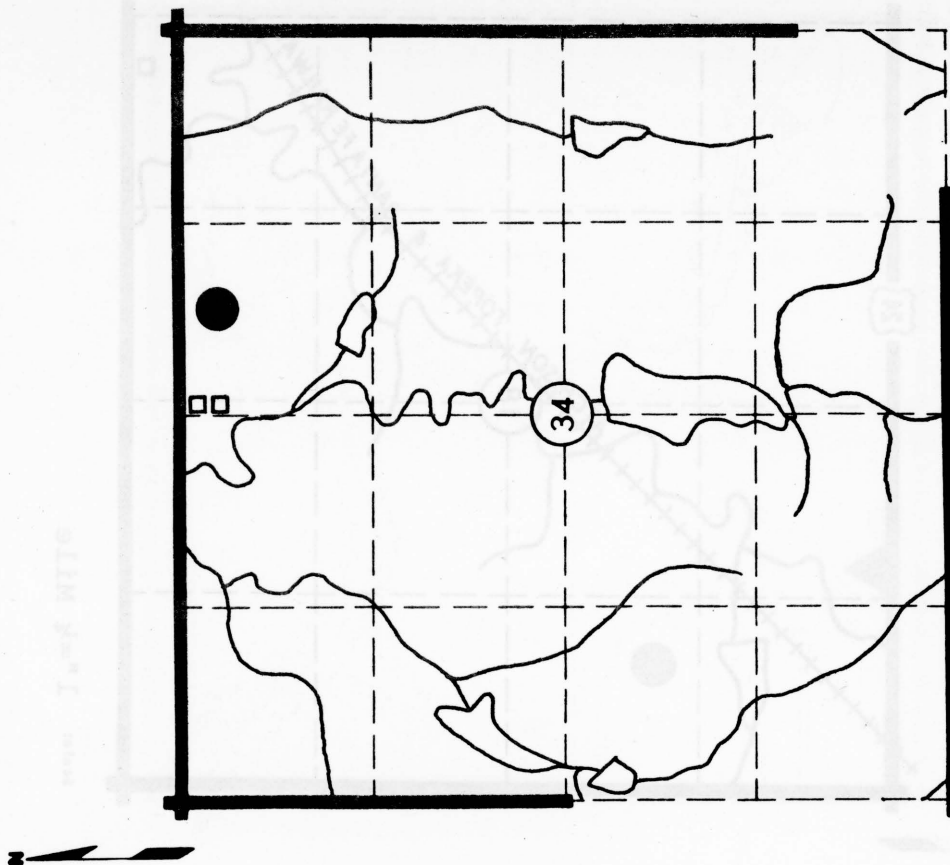
Status of Site Open Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

$$\frac{SS+115}{Kd}$$

Site No.                      Date June, 1977  
 Kd                       
 Material Sandstone County Cloud  
 Location SW $\frac{1}{4}$  NW $\frac{1}{4}$  Sec. 18 Twp. 8S Range 1W  
 Owner Laurice E. & Lawrence H. Smith Miltonvale, KS  
 name                      address                       
 Nature of Deposit Dry Accessibility Good Site Located on Plate IX  
 Status of Site Open Materials Site; Not Sampled

[illegible]

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



# PROSPECTIVE MATERIALS SITES ; SAMPLED

## LEGEND

|               |                      |   |                                          |
|---------------|----------------------|---|------------------------------------------|
| =====         | Trail or lane        | ■ | Open materials sites; sampled            |
| —————         | Road                 | ● | Open materials sites; not sampled        |
| +++++         | Railroad             | ▼ | Prospective materials sites; sampled     |
| ~~~~~         | Hedge or trees       | ◆ | Prospective materials sites; not sampled |
| ~~~~~<br>Name | Major streams        | ⑤ | Center of section                        |
|               |                      | □ | Dwelling                                 |
| ~~~~~         | Intermittent streams | ⊕ | Cemetery                                 |
| ~~~~~         | Pond or lake         | □ | School                                   |
|               |                      | ⊕ | Church                                   |
|               |                      | ■ | Town or city                             |

# MATERIAL SITE DATA FORM

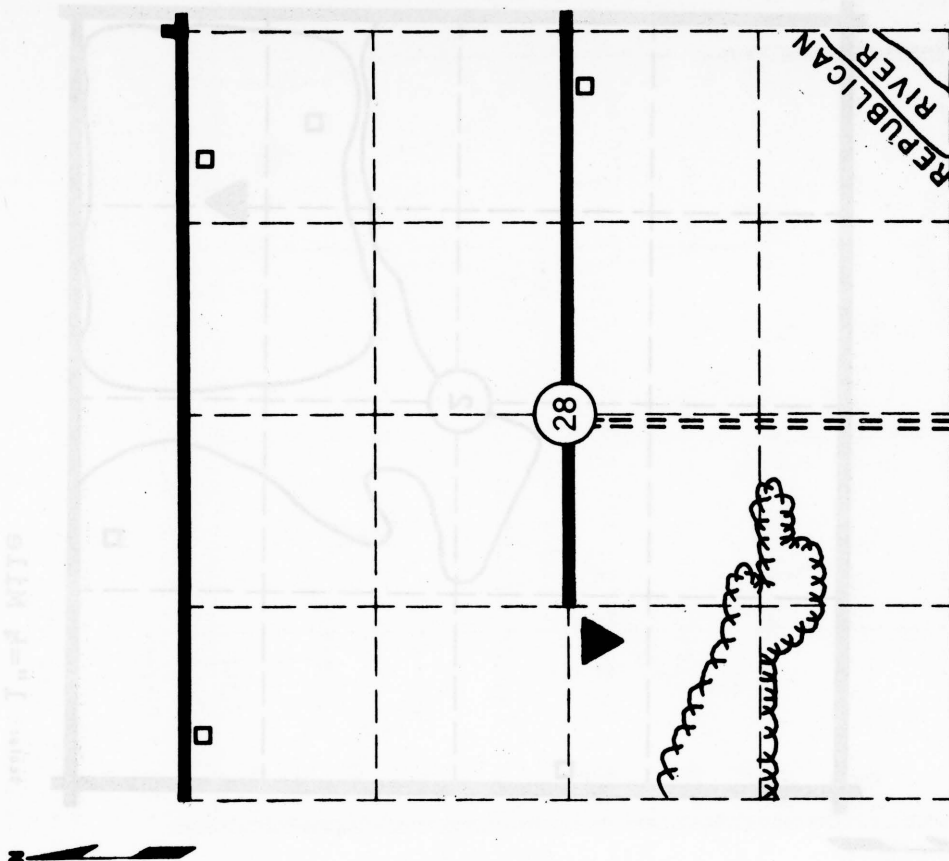
Site No. Fs-1116 Date June, 1977  
Qds  
 Material Fine Sand County Cloud  
 Location SW 1/4 Sec. 28 Twp. 5S Range 1W  
 Owner Mary Palmer 615 W. Lake St. Ft. Collins, CO  
 address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate III  
 Status of Site Prospective Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.I. | P.I. |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|-----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |
|           |                            |                      |                   |                  |     |     |   |   | 0  | 1  | 25 | 60       | 22   |      |      |     |
|           |                            |                      |                   |                  |     |     |   | 0 | 1  | 1  | 23 | 65       | 16   |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   | 0  | 2  | 23 | 58       | 24   |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   | 0  | 2  | 29 | 65       | 20   |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   | 0  | 1  | 24 | 63       | 21   |      |      |     |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Dune Sand  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Location 15-6 Materials Department



Scale: 1" = 1/4 Mile



## Si-117

Site No. Q1 Date June, 1977

Material Silt County Cloud

Location SE  $\frac{1}{4}$  Sec. 2 Twp. 6S Range 1W

Owner Lawrence E. Koch Route 2 Clyde, Kansas  
name address

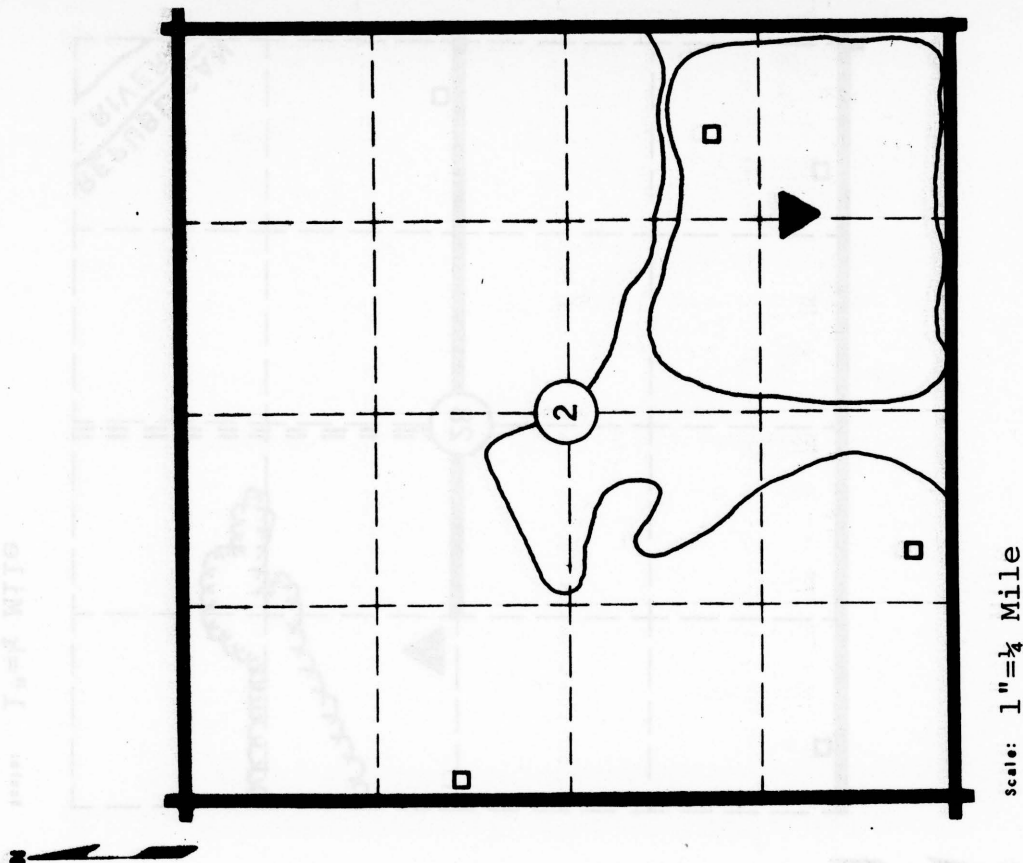
Nature of Deposit Dry Accessibility Good Site Located on Plate III

Status of Site Prospective Materials Site; Sampled

[illegible]

## CORRELATION DATA

Geological Age Quaternary  
Geological Source Loess  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Location 15-5 Materials Department  
Remarks \_\_\_\_\_



scale:  $1" = \frac{1}{4}$  Mile

# MATERIAL SITE DATA FORM

Si-118

Site No. Qtw Date June, 1977  
 Material Silt County Cloud  
 Location SE 1/4 Sec. 23 Twp. 8S Range 5W  
 Owner N.J. Spicher 706 Parkway Dr. Blackwell, OK  
 Name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VII  
 Status of Site Prospective Materials Site; Sampled

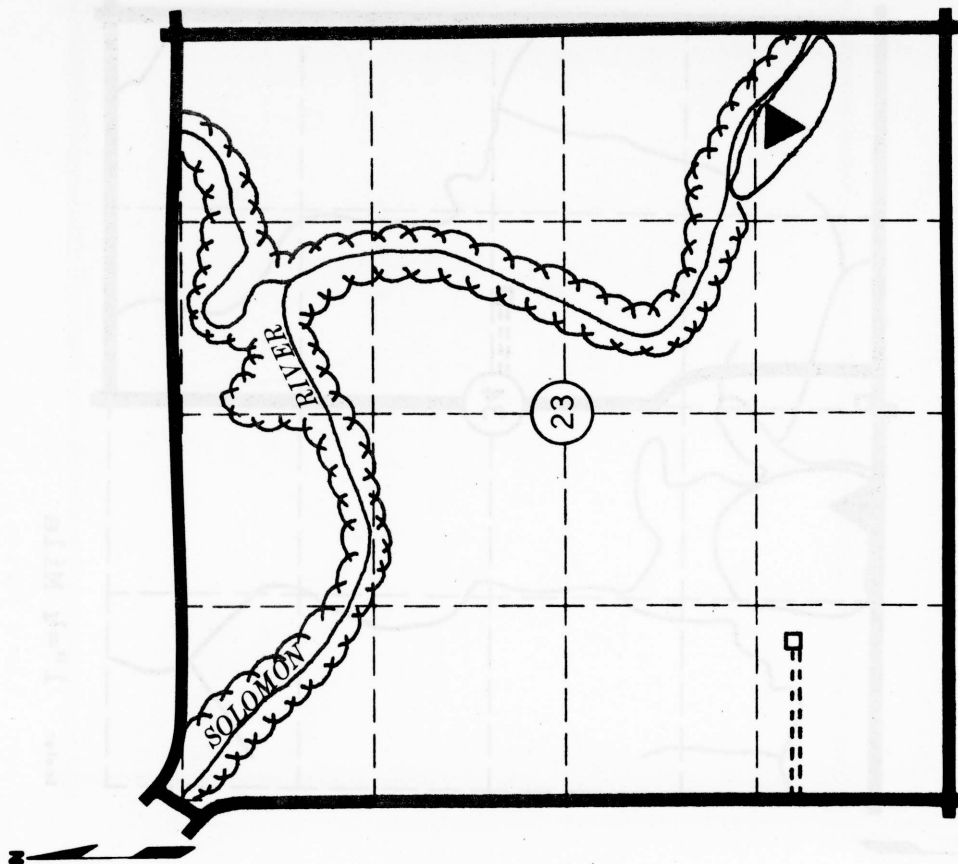
## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Material | Percent Retained |     |     |   |   |    |    | Wash 200 | G.F. | L.L. | P.I. |
|-----------|----------------------------|-------------------|------------------|-----|-----|---|---|----|----|----------|------|------|------|
|           |                            |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50       | 100  |      |      |
|           |                            |                   |                  |     |     |   |   |    |    | 0        | 1    | 99   | 3    |
|           |                            |                   |                  |     |     |   |   |    |    | 0        | 0    | 99   | 4    |
|           |                            |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                   |                  |     |     |   |   |    |    |          |      |      |      |
|           |                            |                   |                  |     |     |   |   |    |    |          |      |      |      |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Wisconsinan Terrace  
 Material Similar To SHC Lab. No. 56-2-45 & AA-9719 / 56-2-46 & AA-9719

Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear   
 Absorption  Soundness   
 Wt. Cu.Ft.  Str. Ratio   
 Remarks Location 15-17 Materials Department



Scale: 1"=1/4 Mile

# MATERIAL SITE DATA FORM

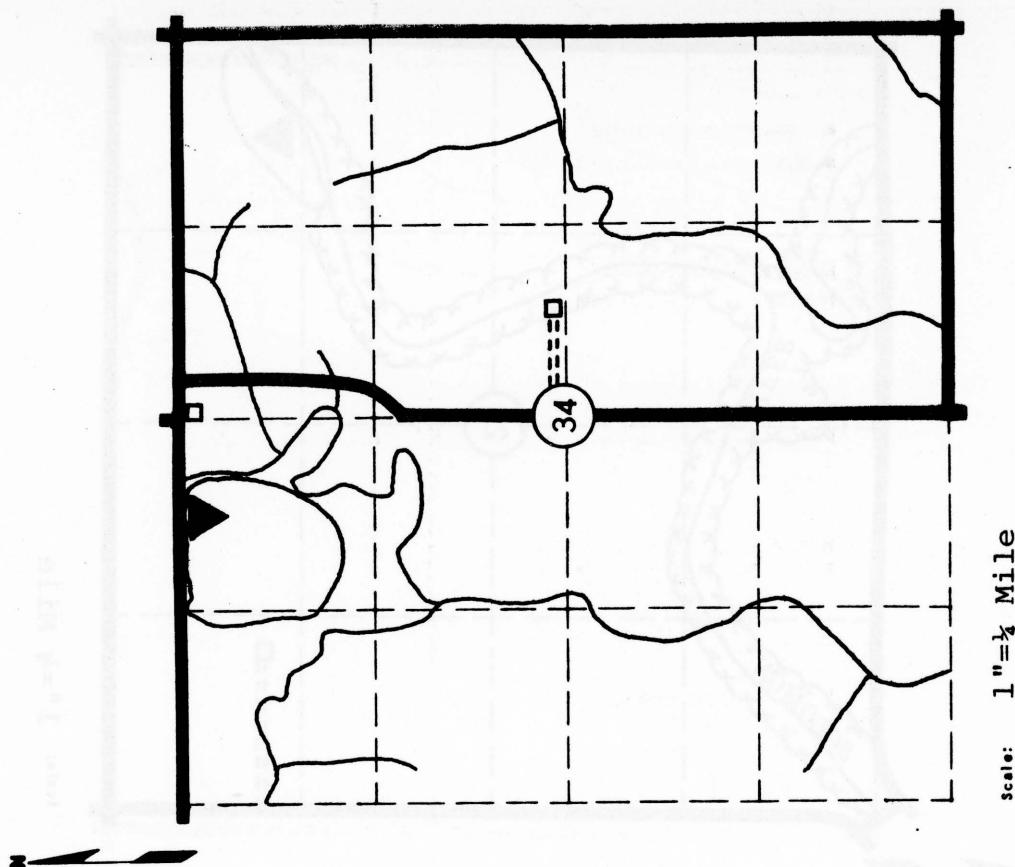
Site No. Si-1119 Date June, 1977  
Qtw  
 Material Limestone County Cloud  
 Location NW $\frac{1}{4}$  Sec. 34 Twp. 8S Range 3W  
 Owner W. R. Haley Delphos, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate VIII  
 Status of Site Prospective Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|-----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |
|           |                            |                      |                   | 0                | 1   | 1   | 1 | 1 | 1  | 1  | 5  | 87       | 6    |      | 22   | 0   |
|           |                            |                      |                   |                  |     |     |   |   |    | 0  | 3  | 79       | 12   |      | 21   | 2   |
|           |                            |                      |                   | 0                | 2   | 4   | 4 | 4 | 5  | 5  | 6  | 63       | 21   |      | 19   | 0   |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Wisconsinan Terrace  
 Material Similar To SHC Lab. No. AA-8840  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Location 15-12 Materials Department



# MATERIAL SITE DATA FORM

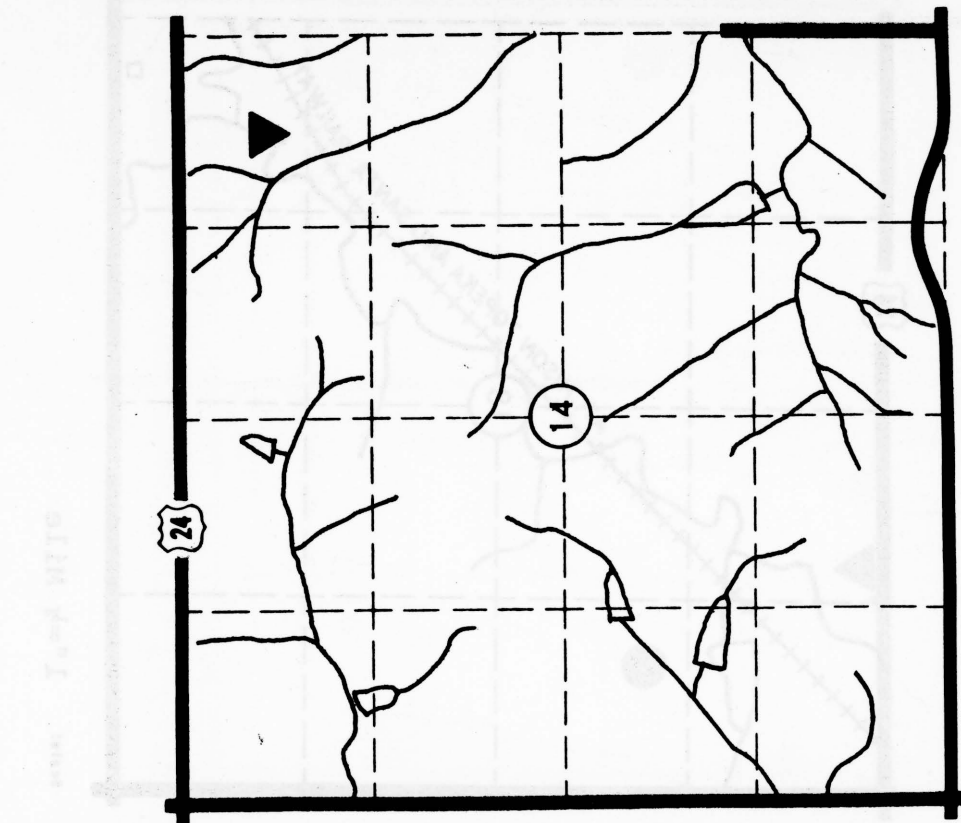
Site No. SS+120 Date June, 1977  
Kd  
 Material Sandstone County Cloud  
 Location NE 1/4 Sec. 14 Twp. 8S Range 2W  
 Owner E. L. Trahan Miltonvale, Kansas  
 name address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate IX  
 Status of Site Prospective Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |   |    |    |    | Wash 200 | G.F. | L.L. | P.I. |     |   |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|-----|---|
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |   |
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |   |
|           |                            |                      |                   |                  |     | 0   | 1   | 2 | 2  | 3  | 3  | 8        | 69   |      | 21   | 4   |   |
|           |                            |                      |                   |                  |     |     |     |   | 0  | 1  | 1  | 2        | 2    | 4    | 90   | 21  | 7 |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    | 0        | 57   | 26   |      | 17  | 2 |
|           |                            |                      |                   |                  |     |     | 0   | 1 | 1  | 2  | 2  | 2        | 31   | 68   |      | 20  | 4 |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    | 0        | 53   | 39   |      | 16  | 1 |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Dakota Formation  
 Material Similar To SHC Lab. No. AA-8946  
 Specific Gravity (Sat.) (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu. Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks Location 15-13 Materials Department



Scale: 1" = 1/4 Mile

# MATERIAL SITE DATA FORM

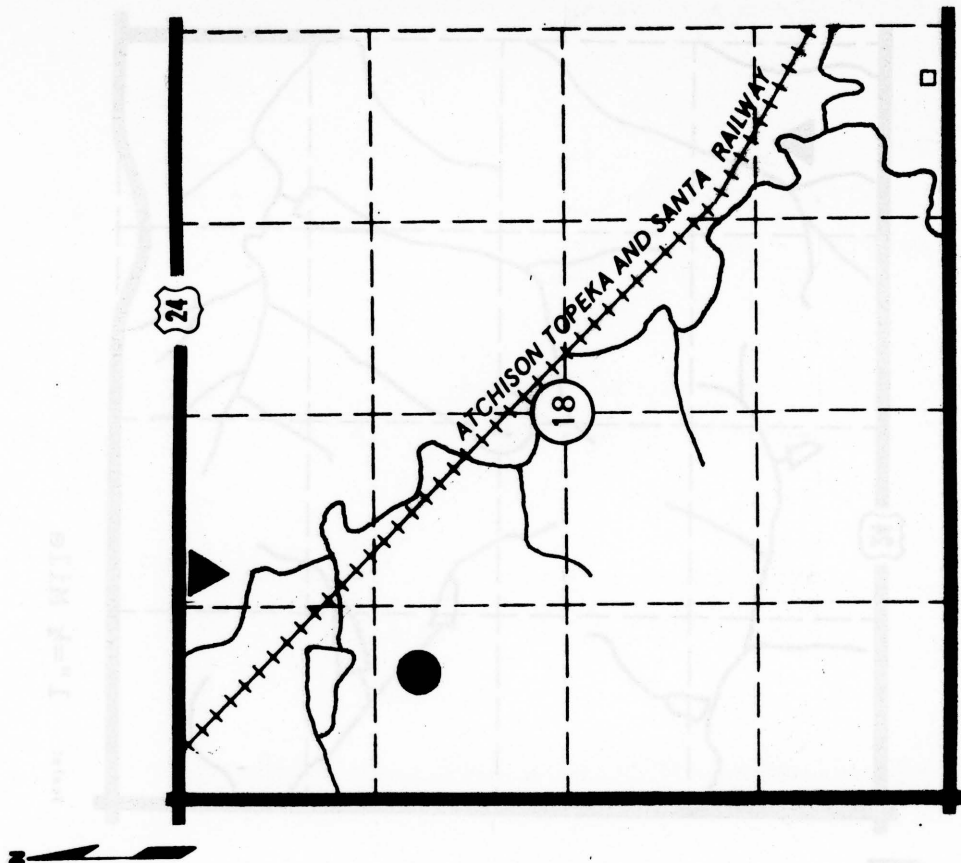
Site No. Si-121  
Q1 Date June, 1977  
 Material Silt County Cloud  
 Location NE 1/4 NW 1/4 Sec. 18 Twp. 8S Range 1W  
 Owner Laurice E. & Lawrence H. Smith address Miltonvale, KS  
 Nature of Deposit Dry Accessibility Good Site located on Plate IX  
 Status of Site Prospective Materials Site; Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-burden | Depth of Material | Percent Retained |     |     |     |   |    |    |    | Wash 200 | S.F. | L.L. | P.I. |     |    |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|-----|---|----|----|----|----------|------|------|------|-----|----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 1/4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     | 0   | 2   | 4 | 6  | 7  | 13 | 40       | 56   |      |      | 26  | 12 |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      | 20  | 6  |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    |          |      |      |      |     |    |
|           |                            |                      |                   |                  |     |     |     |   |    |    |    | </       |      |      |      |     |    |

## CORRELATION DATA

Geological Age Quaternary  
 Geological Source Loess  
 Material Similar to SHC Lab. No. AA-8828  
 Specific Gravity (sat.) (dry)  
 Los Angeles Near   
 Absorption  Soundness   
 Wt. Co. Ft.  Str. Ratio   
 Remarks Location 15-11 Materials Department



Scale: 1" = 1/4 Mile

# PROSPECTIVE MATERIALS SITES ; NOT SAMPLED

## LEGEND

===== Trail or lane

———— Road

+ + + + + Railroad

~~~~~ Hedge or trees

~~~~~  
Name Major streams

~~~~~ Intermittent streams

~~~~~ Pond or lake

■ Open materials sites; sampled

● Open materials sites; not sampled

▼ Prospective materials sites; sampled

◆ Prospective materials sites; not sampled

⑤ Center of section

□ Dwelling

⊕ Cemetary

▣ School

⊕ Church

■ Town or city



# MATERIAL SITE DATA FORM

SS+122

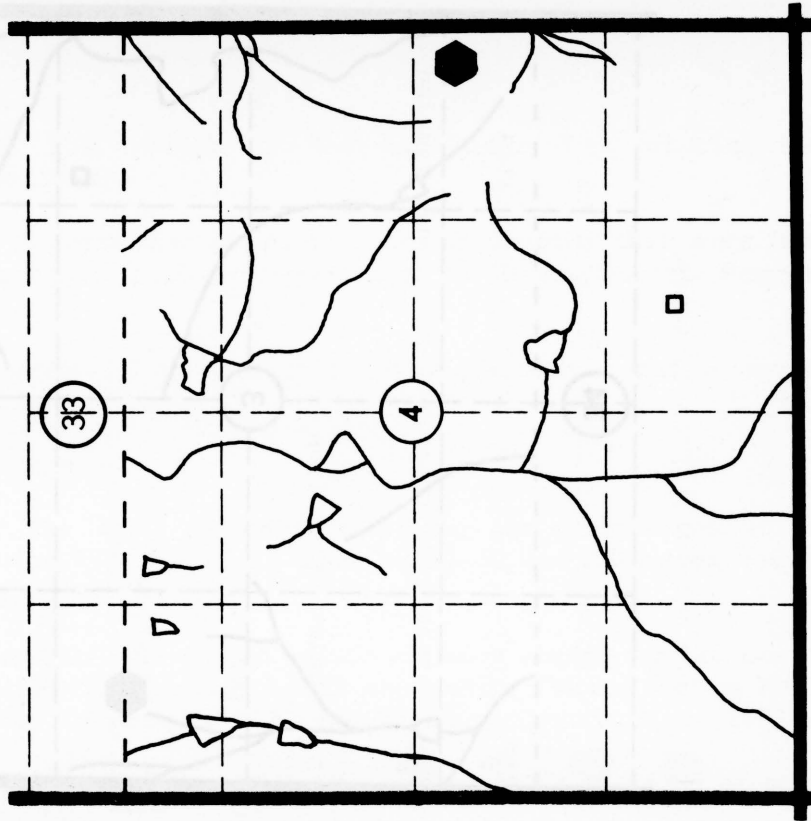
Site No. Kd Date June, 1977  
 Material Sandstone County Cloud  
 Location SE 1/4 Sec. 4 Twp. 6S Range 2W  
 Owner O. G. Doyen Rice, Kansas  
 Name Address  
 Nature of Deposit Dry Accessibility Good Site Located on Plate III  
 Status of Site Prospective Materials Site; Not Sampled

## EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of over-Burden | Depth of Material | Percent Retained |     |     |   |   |    |    |    | Wash 200 | G.F. | L.L. | P.L. |     |
|-----------|----------------------------|----------------------|-------------------|------------------|-----|-----|---|---|----|----|----|----------|------|------|------|-----|
|           |                            |                      |                   | 1 1/2            | 3/4 | 3/8 | 4 | 8 | 16 | 30 | 50 |          |      |      |      | 100 |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |
|           |                            |                      |                   |                  |     |     |   |   |    |    |    |          |      |      |      |     |

## CORRELATION DATA

Geological Age Cretaceous  
 Geological Source Dakota Formation  
 Material Similar To \_\_\_\_\_  
 Specific Gravity (Sat.) \_\_\_\_\_ (Dry)  
 Los Angeles Wear \_\_\_\_\_  
 Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
 Wt. Cu.ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
 Remarks \_\_\_\_\_



Scale: 1" = 1/4 Mile

## SS+123

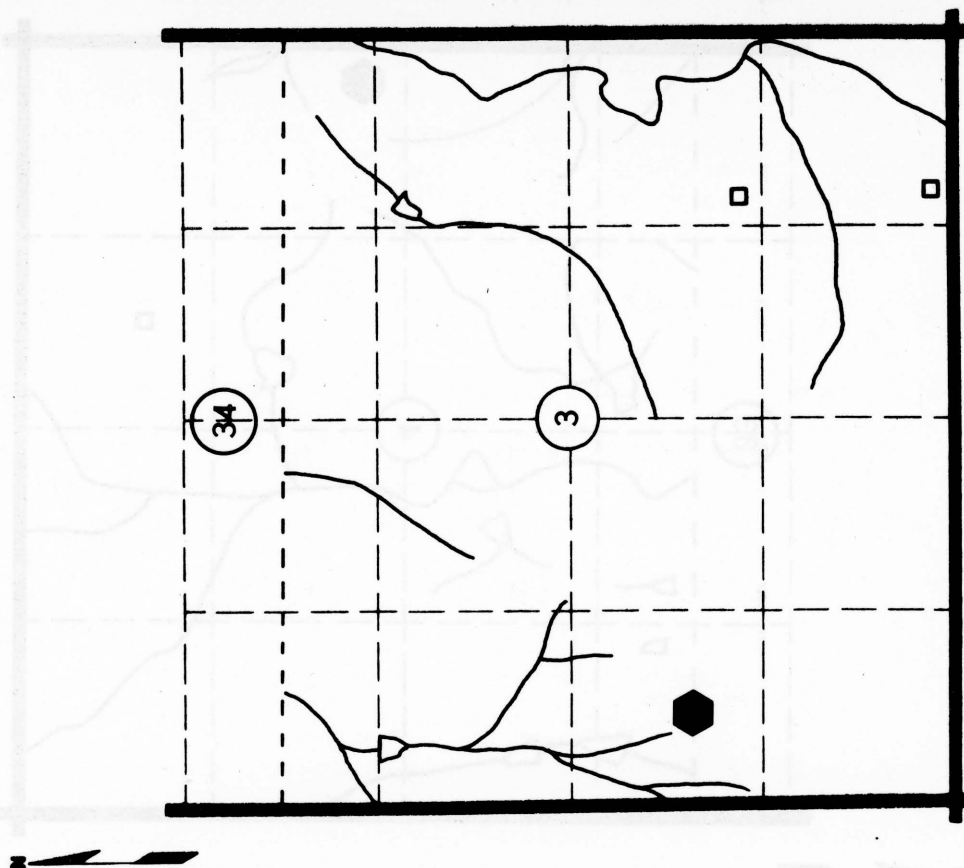
Site No. Kd Date June, 1977  
Material sandstone County Cloud  
Location SW $\frac{1}{4}$  Sec. 3 Twp. 6S Range 2W  
Owner W. E. Moberly, Etux, Route 1 Ames, Kansas  
Address  
Nature of Deposit Dry Accessibility Good Site Located on Plate III  
Status of Site Prospective Materials Site; Not Sampled

### EXPLORATION DATA

[illegible]

## CORRELATION DATA

Geological Age Cretaceous  
Geological Source Dakota Formation  
Material Similar To \_\_\_\_\_  
Specific Gravity (Sat.) \_\_\_\_\_ (Dry) \_\_\_\_\_  
Los Angeles Wear \_\_\_\_\_  
Absorption \_\_\_\_\_ Soundness \_\_\_\_\_  
Wt. Cu.Ft. \_\_\_\_\_ Str. Ratio \_\_\_\_\_  
Remarks \_\_\_\_\_



Scale: 1" =  $\frac{1}{4}$  Mile

## GLOSSARY

**A.A.S.H.O.:** American Association of State Highway Officials.

**A.A.S.H.T.O.:** American Association of State Highway and Transportation Officials.

**Absorption:** Determined by tests performed in accordance with A.A.S.H.O. designation T85.

**Aggrade:** To raise the grade or level of a valley or stream bed by depositing particles of clay, silt, sand, and gravel.

**Aggregate:** Any of several hard, inert, construction materials (such as sand, gravel, shells, slag, crushed stone, or other mineral material), or combinations thereof, used for mixing in various-sized fragments with a cementing or bituminous material to form concrete or bituminous mix.

**Alluvium:** A deposit of clay, silt, sand, or gravel deposited by a stream or other body of running water.

**Aquifer:** A body of rock that contains sufficient saturated permeable material to conduct ground water and to yield economically significant quantities of ground water to wells and springs.

**Arkosic:** Composed of mineral fragments derived from igneous rocks.

**Bedded:** A characteristic of some rock units which shows distinct layers due to the manner in which they were deposited.

**Bentonite:** A clay which is formed by the decomposition of volcanic ash and is largely composed of the clay minerals montmorillonite and beidellite.

**Chert:** A dull, flint-like, siliceous rock.

**Clastic:** Pertaining to or being a rock or sediment principally of broken fragments that are derived from pre-existing rocks or minerals and that have been transported individually for some distance from their places of origin; also said of the texture of such a rock.

**Coarse sand:** An aggregate of unconsolidated aggregate of rounded minerals or rock particles, the dimensions of which are usually more than two millimeters.

**Concretion:** Irregularly shaped nodules that occur in sedimentary rocks which form gradually by precipitation, around a definite nucleus.

**Consolidated deposit:** A deposit of limestone, shale, or sandstone. In Kansas, this term generally applies to rock older than Pliocene age.

**Construction aggregate:** Processed rock that will meet standard specifications for concrete and bituminous construction.

**Crossbedding:** Term applied to sedimentary deposits whose bedding is inclined at various angles to the stratification.

**Degrade:** To lower the level of a stream or river valley by stream erosive action.

**Dip of geologic units:** Angle of incline of the bed with respect to horizontal, and the direction these beds are inclined.

**Disconformity:** An erosional or nondepositional surface between two parallel bedding planes.

**Dune sand:** A type of blown sand that has been piled up by wind action, usually consisting of rounded quartz grains having diameters varying from 0.1 to 1 mm.

**Embayment:** Term describing a continental border area that has sagged concurrently with deposition so that an unusually thick section of sediment results.

**Exposure patterns:** Topographic features formed on the land surface by the exposure of geologic units.

**Facies change:** A lateral or vertical variation in the lithologic or paleontologic characteristics of sedimentary deposits caused by a change in the depositional environment.

**Fine sand:** An aggregate of consolidated minerals or rock particles, the dimensions of which are not less than 0.05 of a millimeter and not more than 0.42 of a millimeter. The term refers to size of grain and not to composition; however, since most sands are composed of quartz and feldspar, and the term is used without qualifications, a siliceous composition is implied.

**Fluvial cycle:** The stream-action cycle involving periods of deposition, erosion, and return to deposition.

**Formation:** A persistent body of rocks, having easily recognizable upper and lower boundaries that can be traced in the field without recourse to detailed paleontologic or petrologic analysis, and large enough to be represented on a geologic map as a practical or convenient unit for mapping and description.

**Fossil:** Any remains, trace, or imprint of a plant or animal that has been preserved, by natural processes, in the Earth's crust since some past geologic time.

**Geologic era:** Largest unit of geologic time (e.g. Paleozoic, Mesozoic and Cenozoic).

**Geologic period:** A unit of geologic time, shorter than an era and longer than an epoch (e.g. Cambrian, Cretaceous, and Tertiary).

**Geologic process:** Term pertaining to erosion, deposition, and diastrophic methods by which the Earth's surface has been shaped.

**Geologic structure:** The attitude of the rock units (i.e., whether they are horizontal or tilted).

**Geologic system:** A term that refers to rocks or deposits that were laid down during a particular geologic period (e.g. the Pennsylvanian, Permian, and Quaternary).

**Geologic unit:** A general term used to denote a geologic formation, member, or an unconsolidated deposit.

**Gpm:** Gallons per minute.

**Gradation factor:** The value obtained by adding the percentages of material retained on the 1½", ¾", ⅜", 4, 8, 16, 30, 50 and 100 sieves, respectively and dividing the sum by 100.

**Grading A, B, C, and D:** Determined by the abrasive charge for the Los Angeles wear test as specified in A.A.S.H.O. designation T96 and section 1001 of the State Highway Commission of Kansas, Standard Specifications, 1973 edition.

**Ground-water:** That part of the subsurface water that is the zone of saturation, including underground streams.

**Hiatus:** A break or interruption in the continuity of the geologic record, such as the absence in a stratigraphic sequence of rocks that would normally be present but that are missing, either because of erosion or non-deposition.

**Incised:** A stream meander that has downcut or entrenched into the surface during and because of relative uplift of the surface.

**L/s:** Liters per second.

**Landform:** Any physical, recognizable form or feature of the Earth's surface, having a characteristic shape, and produced by natural causes; it includes major forms such as plain, plateau, mountain, hill, valley, slope, esker, and dune.

**Light type surfacing:** A surface course constructed from aggregate which is not bound by water, cement, or bituminous material.

**Liquid limit:** The water-content boundary between the semiliquid and the plastic states of sediment. Determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

**Lithology:** Physical properties of rocks such as grain size, mineral content, and color.

**Loess:** Material generally composed of silt-sized particles deposited by wind.

**Los Angeles wear:** Determined by tests performed in accordance with A.A.S.H.O. designation T96 as modified by section 1001 of the State Highway Commission of Kansas Standard Specifications, 1973 edition.

**Marine deposits:** Deposits laid down in a sea.

**Material source bed:** A geologic unit from which construction material is being or can be produced.

**Matrix:** The smaller or finer-grained, continuous material enclosing, or filling the interstices between the larger grains or particles of a sediment or sedimentary rock.

**Member:** A division of a formation, generally of distinct lithologic character or of only local extent.

**Open materials site:** A pit or quarry from which material is produced for possible construction purposes.

**Petroliferous:** Containing or yielding petroleum.

**Physiographic division:** A division of the state, based on general geologic and(or) geographic features.

**Plasticity index:** The water-content range of a soil at which it is plastic; determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

**Pleistocene Series:** Deposits laid down during the Pleistocene Epoch.

**Pliocene Epoch:** The youngest major subdivision of the Tertiary Period.

**Prospective materials site:** A location where the geologic conditions are favorable for finding and producing construction aggregate.

**Quartzite:** Metamorphic rock produced by recrystallization of primary quartz sandstone under heat and pressure. Term is sometimes misused for quartzose sandstones.

**Quartz arenite:** Sands, the detrital fraction of which is 95% or more quartz and cemented by quartz or calcite. (Pettijohn, 1975)

**Quartzose:** Sands and sandstones consisting chiefly of quartz.

**Reactive aggregate:** A siliceous aggregate whose chemical properties react with cement causing a secondary growth within the concrete.

**Sand dunes:** Loose sand particles piled or heaped up by the wind.

**Sedimentary quartzite:** Term locally applied to scattered zones of calcium carbonate and silica-cemented sandstone in the Dakota Formation. Material is so well bonded that a fracture will penetrate the individual grains rather than break around them.

**Soundness:** Determined by tests performed in accordance with section 1001 of the State Highway Commission of Kansas Standard Specifications, 1973 edition.



**Specific gravity:** Determined by tests performed in accordance with A.A.S.H.O. designation T84 for fine aggregate and T85 for coarse aggregate.

**Stereoscopic vision:** Three-dimensional vision by means of viewing identical images on two photographs exposed from equal distance but at different angles.

**Stratigraphic position:** The vertical position of a geologic unit in relation to other geologic units.

**Stream meander:** One of a series of beds or curves in the course of a stream caused by lateral movement of a stream in its valley.

**Strength ratio:** Determined by tests performed in accordance with A.A.S.H.O. designation T19.

**Sublittoral:** That part of the littoral zone that is between low tide and a depth of about 100 meters (328 feet) in a marine environment.

**Sweetner:** Gravel or crushed stone coarser than No. 8 sieve, added to sand and gravel to meet gradation specifications.

**Terrace:** A plain built up by the deposition of sediments by water.

**Unconformity:** A substantial break or gap in the geologic record where a rock unit is overlain by another that is not next in the stratigraphic succession.

**Unconsolidated deposits:** A sediment that is loosely arranged or unstratified, or whose particles are not cemented together, occurring either at the surface or at depth.

**Wash:** (Material passing the no. 200 sieve). Determined by tests performed in accordance with A.A.S.H.O. designation T11.

**Weathering:** The disintegration (physical change) or decomposition (chemical change) of rock by atmospheric agents.

**Weight per cubic foot:** Determined by tests performed in accordance with A.A.S.H.O. designation T19.

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# CONSTRUCTION MATERIALS INVENTORY SERIES

|       |                          |      |                              |
|-------|--------------------------|------|------------------------------|
| 1.    | Ellis County, Kansas     | 1963 | A. H. Stallard               |
| 2.    | Coffey County, Kansas    | 1966 | A. H. Stallard               |
| 3.    | Mitchell County, Kansas  | 1965 | G. Hargadine                 |
| 4.    | Sumner County, Kansas    | 1964 | G. Hargadine                 |
| 5.    | Linn County, Kansas      | 1966 | G. Hargadine                 |
| 6.    | Sherman County, Kansas   | 1964 | G. Hargadine                 |
| 7.    | Marshall County, Kansas  | 1965 | G. Hargadine                 |
| 8.    | Brown County, Kansas     | 1966 | A. H. Stallard & G. Fenity   |
| 9.    | McPherson County, Kansas | 1969 | G. Hargadine                 |
| 10.   | Harvey County, Kansas    | 1966 | G. Hargadine                 |
| 11.   | Osage County, Kansas     | 1966 | A. H. Stallard               |
| 12.   | Kingman County, Kansas   | 1966 | G. Hargadine                 |
| 13.   | Pratt County, Kansas     | 1969 | G. Hargadine                 |
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| 15.   | Seward County, Kansas    | 1970 | G. Hargadine                 |
| 16.   | Stevens County, Kansas   | 1970 | G. Hargadine                 |
| 17.   | Rawlins County, Kansas   | 1968 | A. H. Stallard               |
| 18.   | Franklin County, Kansas  | 1969 | A. H. Stallard               |
| 19.   | Nemaha County, Kansas    | 1970 | G. D. Hargadine              |
| 20.   | Jefferson County, Kansas | 1971 | A. H. Stallard               |
| 21.   | Butler County, Kansas    | 1967 | G. D. Hargadine              |
| 22.   | Doniphan County, Kansas  | 1974 | G. E. Petersen               |
| 23.   | Bourbon County, Kansas   | 1976 | L. D. Myers                  |
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| 27.   | Miami County, Kansas     | 1975 | G. E. Petersen & L. D. Myers |
| 28.   | Crawford County, Kansas  | 1975 | G. E. Petersen               |
| 29.   | Republic County, Kansas  | 1976 | G. E. Petersen               |
| *30.  | Cloud County, Kansas     | 1978 | L. D. Myers                  |
| 31.   | Ottawa County, Kansas    | 1978 | G. E. Petersen               |
| **32. | Cowley County, Kansas    |      | G. E. Petersen               |
| **33. | Neosho County, Kansas    |      | G. E. Petersen               |
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\* This Report

\*\* In Progress